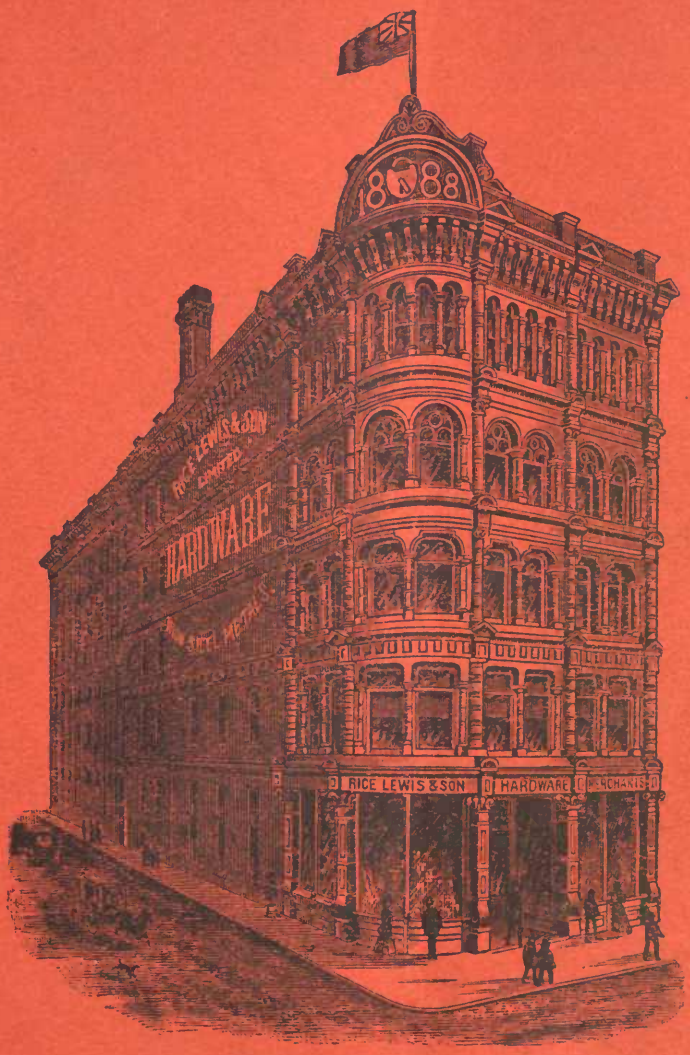
Bicycle Accessories

1900



1900

RICE LEWIS & SON

LIMITED

TORONTO,

CANADA

1158-19960

TO THE TRADE

In presenting this our SIXTH ANNUAL CATALOGUE *of* BICYCLE ACCESSORIES, COMPONENT PARTS, *etc., issued for the benefit of BICYCLE DEALERS, MANUFACTURERS and REPAIR MEN, we beg to call special attention to the many new lines we are now handling, many of which we are SOLE AGENTS for.*

GUARANTEED GOODS *are sold only on Maker's Guarantee; we assume no personal liability.*

IN ORDERING *give full particulars. It will often save correspondence and delay by referring to Figures and Numbers in Catalogue. Parties not having an account will please remit with order, and if goods are to be sent by mail include sufficient for postage.* GOODS OR SAMPLES ORDERED OR RETURNED BY MAIL ARE AT CUSTOMER'S RISK.

TERMS: NET CASH.

RICE LEWIS & SON,
Limited.

TORONTO, *February, 1900.*

AR
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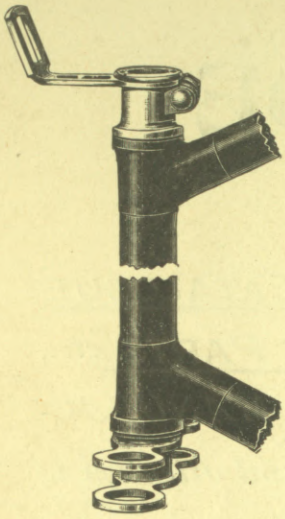
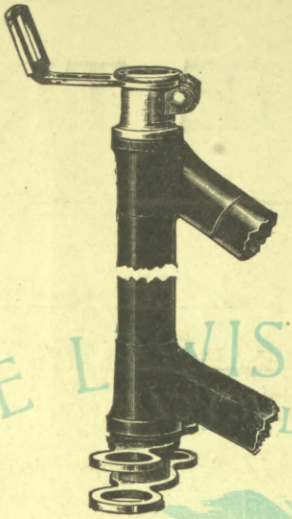
B. S. A. FITTINGS

NICKEL-PLATED POINTS. FULL MACHINED.



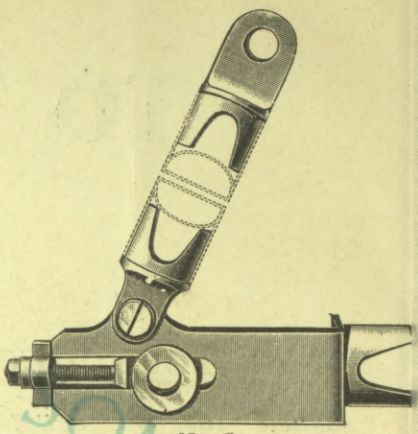
No. **1**

Gents' Ball Head, $1\frac{1}{8}$ or $1\frac{1}{4}$"
Sizes $7\frac{1}{2}$ to $9\frac{1}{2}$".
Each, $6.30.



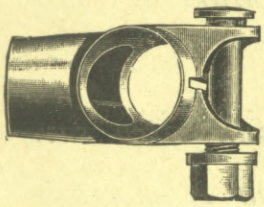
No. **2**

Ladies' Ball Head, $1\frac{1}{8}$"
Sizes $7\frac{1}{2}$ to $9\frac{1}{2}$"
Each, $6.30.



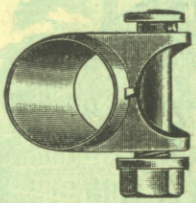
No. **9**

Rear Fork and Back Stay Ends for D tubes, and Chain adjusters.
Per set, $2.15.



No. **3**

Gents' Seat Post Lug and N.P. Bolt, $1\frac{1}{8}$ x 1".
Each, $1.00.

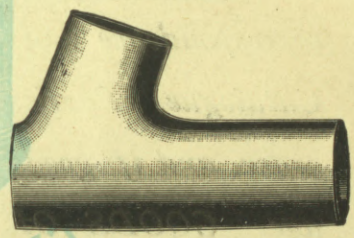


No. **4**

Ladies' Seat Post Lug and N.P. Bolt, $1\frac{1}{8}$".
Each, $1.00.

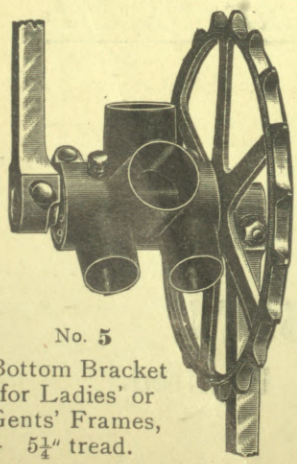
No. **10**

Rear Fork and Lower Back Stay End and Chain Adjusters.
Machined $\frac{7}{8}$ and $\frac{5}{8}$", round tubes.
Per pair, $1.20.



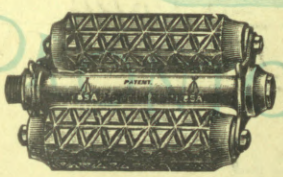
No. **11**

Ladies' Top Tube Lug, $1\frac{1}{8}$ x $1\frac{1}{8}$".
Each, $1.00.



No. **5**

Bottom Bracket for Ladies' or Gents' Frames, $5\frac{1}{4}$" tread.
16 to 20 teeth, each $7.00; sprockets over 20 teeth, add 25c. tooth to list.

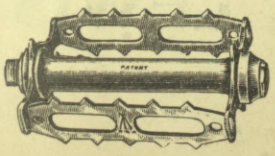


No. **6**

Rubber Pedal.

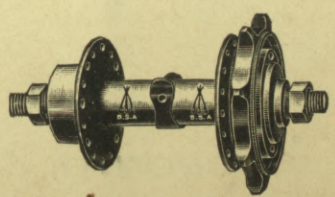
No. **12**

Front Hub.



No. **7**

Rat-trap Pedal.



No. **13**

Rear Hub.

SETS OF B. S. A. FITTINGS

MACHINED READY FOR TUBES WITH NICKEL-PLATED POINTS

B. S. A. SET No. 1

Gents' or ladies' roadster frame, consisting of bottom bracket (No. 5), 16 to 20 teeth; ball head (No. 1), seat post lug with nickel-plated bolt (No. 3), D pattern rear fork ends with nickel-plated chain adjusters and D pattern back stay ends (No. 8), pair of hubs (Nos. 12 and 13), 7 or 8 teeth; D pattern weldless rear forks and back stay tubes (Nos. 85 and 86) .....PRICE PER SET, $20.00

B. S. A. SET No. 2

Gents' or ladies' roadster, frame for round rear tubes, consisting of bottom bracket (No. 5), 16 to 20 teeth; ball head (No. 1), seat post lug with nickel-plated bolt (No. 3), rear fork ends with nickel-plated chain adjusters and lower back stay end (No. 10), pair of hubs (Nos. 12 and 13).....PRICE PER SET, $18.00.

SIZE OF TUBING

For gents', 1" top, 1⅛" lower and down tubes, ⅞" rear forks. For ladies', 1⅛" top, lower and down tubes, ⅞" rear forks.

B. S. A. SUNDRY PARTS

FOR REPAIRS ONLY

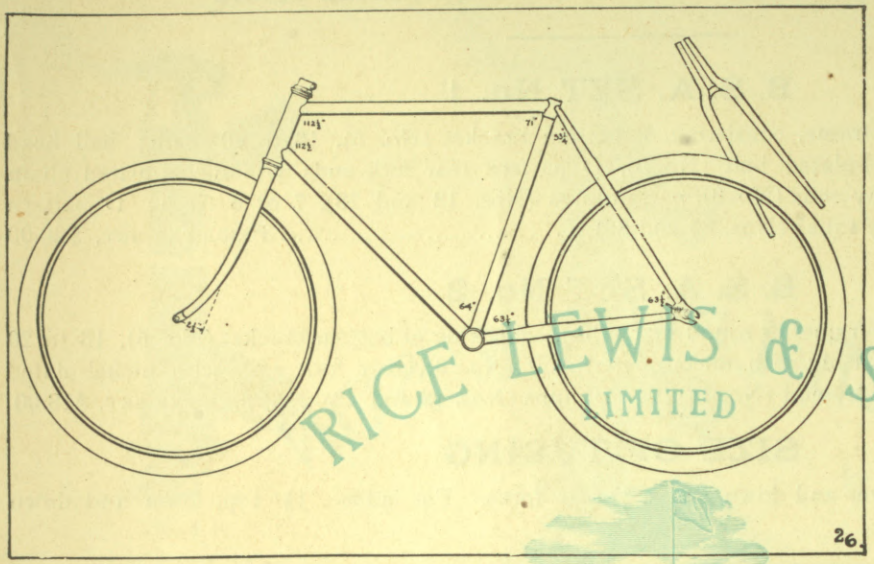
Back hub cups	each,	$0 35
Front hub cups	"	25
Back hub cones	"	40
Front hub cones	"	25
Back hub nuts	"	05
Front hub nuts	"	05
Back hub spindle and cones complete	"	1 00
Front " " "	"	75
Back hub lock nuts	"	20
Hub chain wheel, 7 teeth	"	80
" " 8 "	"	80
" " 9 "	"	1 00
" " 10 "	"	1 20
Bottom bracket wheels and cranks combined, 16 to 20 teeth	"	3 00
" " " " 21 teeth	"	3 25
" " " " 22 "	"	3 50
" " " " 23 "	"	3 80
" " " " 24 "	"	4 00
Plain cranks, 6 or 6½ inches long	"	1 50
Crank cotter pins and nuts	"	20
Crank end screws	"	10
Spindles for bottom brackets	"	90
Bottom bracket body	"	1 50
Bottom bracket locking pin and nut	"	20
Bottom bracket cups	"	45

Fork end back stay screws	each,	$0 05
Seat-lug bolt, complete with nut and washer	"	30
Seat-lug nuts	"	10
" washers	"	05
Ball head top lug	"	60
" bottom lug	"	75
Ball head, inside rings	"	20
" bottom socket rings	"	30
Handle-bar clips complete	"	1 50
Ball head bolt, complete with nut	"	25
" " nuts	"	10
" lock nuts	"	25
" lock washers and lamp brackets, combined	"	30
Chain adjusters, N.P.	per pair,	60
" " nuts	each,	05
" " caps	"	10
Hub steps	"	40
Bottom bracket oil cups	"	15
Pedal pins	"	60
" centres	"	60
" cones	"	30
" locking nuts	"	05
" side plates	"	15
" ends	"	50
" dust caps	"	05

TRADE MARK B.S.A. **None Genuine without this Trade Mark** TRADE MARK B.S.A.

SETS ELECTRICALLY WELDED STEEL FITTINGS

COMPLETE WITH SEAMLESS TUBES AND FORKS



STOCK SIZES FOR FRAMES
22, 23½ and 26 inches.

For 28″ wheels, flush joint construction, with seat post cluster.

Drop 2½″, Wheel Base 44″.

D rear forks, ⅞″, tapered to ¾″ at fork end.

D rear stays curved ⅞″, tapered to ¾″ at fork end and ⅝″ at top end.

Tread, 4¾″.

Tubing, 1⅜″ head, 1⅛″ main frame, ⅞″ rear forks, and ⅞″ tapered rear stays.

MODEL 26 FITTINGS

22-inch Frame. Gents' Shouldered Flush Joint, 28-inch Wheels.

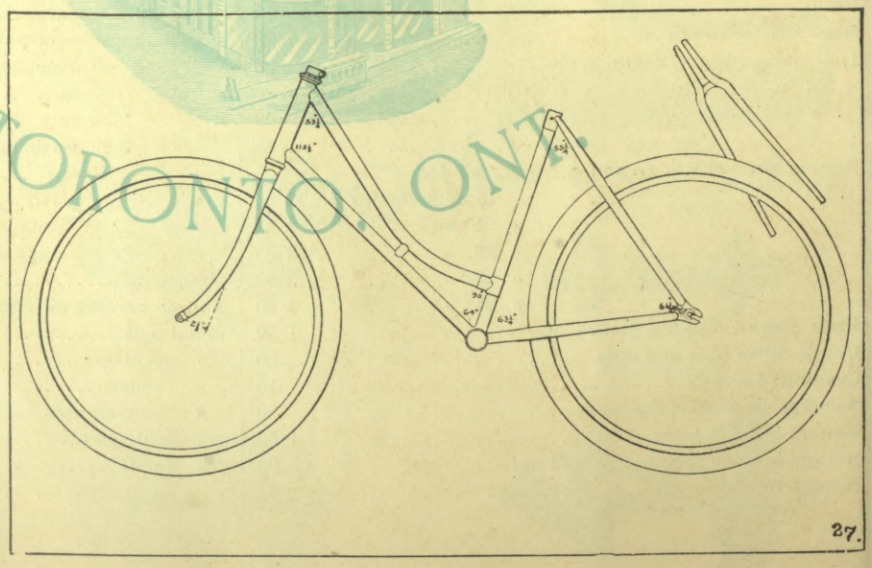
No.	
C-12	Upper and lower, 112½°—flush head, 1⅜ x 1⅛″, fitted with head lugs.
E-10	Seat post cluster—71° x 53¼°—1⅛ x 1⅛″.
G-3	Rear fork ends (pair), ¾″—18 gauge x ¾″—20 gauge.
O-2	Chain adjusters (pair), forged pattern.
F-11	Hanger Bracket—64° front x 63¼° rear—1⅛ x 1⅛ x ⅞″.
B-4	Hanger cups (pair), with 04 ball retainer.
B-23	Hanger cone (adj.), tapped, .875″—28 pitch (left).
B-44	Hanger cone (sta.), tapped, .875″—30 pitch (right).
B-63	Hanger locknut, tapped, .875″—28 pitch (left).
B-84	Hanger washer (check), and 26 steel balls $\frac{5}{16}$″.
A-3	Handle-bar clamp.

No.	
A-11	Bolt and nut for H. B.C.
A-22	Head locknut, tapped, 1″—24 pitch.
A-31	Head washer (check).
A-41	Upper head cone, tapped, 1″—24 pitch.
A-51	Upper head cup for 22 $\frac{3}{16}$″ balls.
A-61	Lower head cups for 23 $\frac{3}{16}$″ balls.
A-71	Lower head cone, and 45 steel balls $\frac{3}{16}$″.
I-5	Head stem, 16 gauge, thread 1″—24 pitch.
J-4	Arch crown, forged pattern.
K-4	Forksides (pair), 1″ x 19 gauge—2½″ throw.
L-2	Hubs (pair), drilled 32 x 36—with sprocket.
P-9	2 arch struts for forks and stays.

MODEL 27 FITTINGS

STOCK SIZES FOR FRAMES
21 and 23½ inches.

NOTE—**MODEL No. 27** use same fittings as No. 26, substituting for C-12, lug C-15; for E-10, lug E-13; and add centre lug D-5.



Sets as above with Thompson's No. 2 two-piece Crank Hanger, Nickel-Plated, sprockets up to 26-tooth.....per set, $10 00
" " " Fauber Patent one-piece Special " " " " ..... " 13 00
" " " " " " Standard " " " " ..... " 14 00

Add 15c. for every additional two teeth.

RICE LEWIS & SON LIMITED TORONTO, ONT.

SETS ELECTRICALLY WELDED STEEL FITTINGS

COMPLETE WITH SEAMLESS TUBES AND FORKS

STOCK SIZES FOR FRAMES
22, 23½ and 26 inches.

For 28″ wheels, flush joint construction, with seat post cluster.

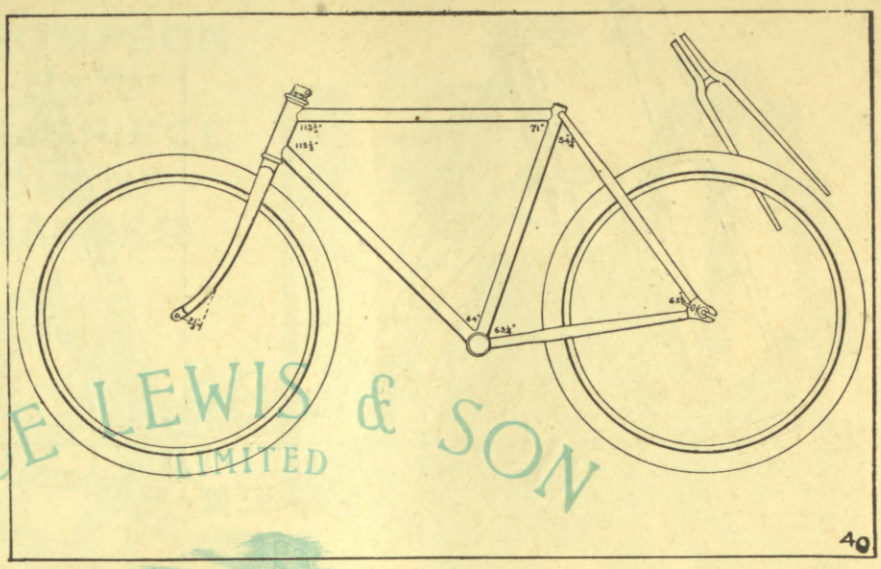
Drop, 2¾″, Wheel Base 45⅜″.

Oval rear forks, ⅞″, tapered to ¾″ at fork end.

Oval rear stays ¾″, tapered to ⅝″ at top end.

Tread, 4¾″.

Tubing 1⅜″ head, 1⅛° main frame, ⅞″ forks, and ¾″ tapered rear stays.



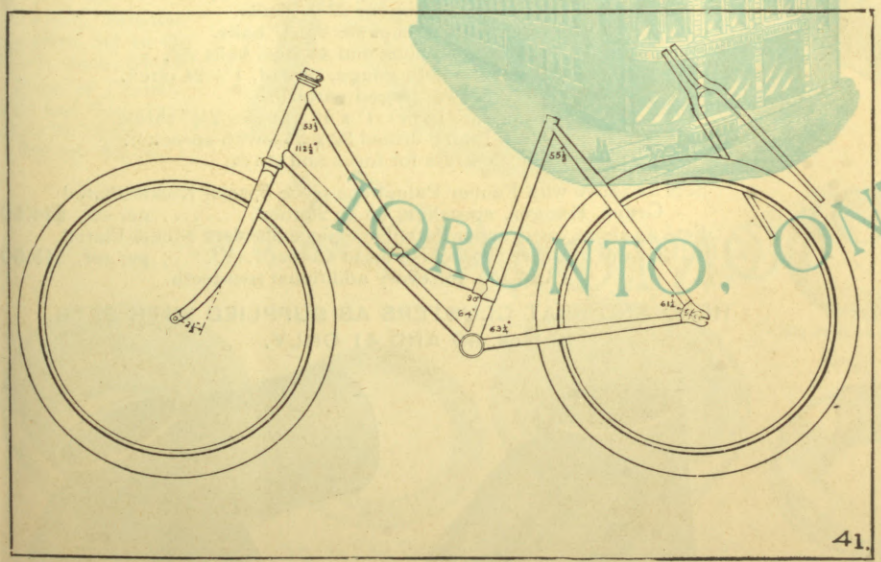
RICE LEWIS & SON LIMITED

MODEL 40 FITTINGS

22-inch Frame. Gents' Shouldered Flush Joint. 28-inch Wheels.

No.	
W-21	112½°—flush head 1⅜ x 1⅛″.
E-26	Seat post cluster—71° x 54¼°—1⅛ x 1⅛″.
G-3	Rear fork ends (pair), ¾°—18 gauge x ¾″—20 gauge.
O-2	Chain adjusters (pair), forged pattern.
F-15	Hanger Bracket—64° front x 63¼° rear—1⅛ x 1⅛ x ⅞″
B-4	Hanger cups (pair), with 04 ball retainer.
B-23	Hanger cone (adj.), tapped, .875″—28 pitch (left).
B-44	Hanger cone (sta.), tapped, .875″—30 pitch (right).
B-63	Hanger locknut, tapped, .875″—28 pitch (left).
B-84	Hanger washer (check), and 26 steel balls $\frac{5}{16}$″
A-3	Handle-bar clamp.
A-11	Bolt and nut for H. B. C.

No.	
A-22	Head locknut, tapped, 1″—24 pitch.
A-31	Head washer (check).
A-41	Upper head cone, tapped, 1″—24 pitch.
A-51	Upper head cup for 22 $\frac{3}{16}$″ balls.
A-61	Lower head cups for 23 $\frac{3}{16}$″ balls.
A-71	Lower head cone and 45 steel balls $\frac{3}{16}$″.
I-5	Head stem, 16 gauge, thread, 1″—24 pitch.
J-7	Arch crown, hollow, forged pattern.
K-4	Forksides (pair), 1″ x 19 gauge—2½″ throw.
L-6	Hubs (pair), drilled, 32 x 36—with sprocket.
P-9	2 arch struts for forks and stays.



TORONTO, ONT.

MODEL 41 FITTINGS

STOCK SIZES FOR FRAMES
21 and 23½ inches.

NOTE—**MODEL No. 41** use same fittings as No. 40, substituting for W-21, head W-24; for E-26, lug E-29; and add flush centre thimble.

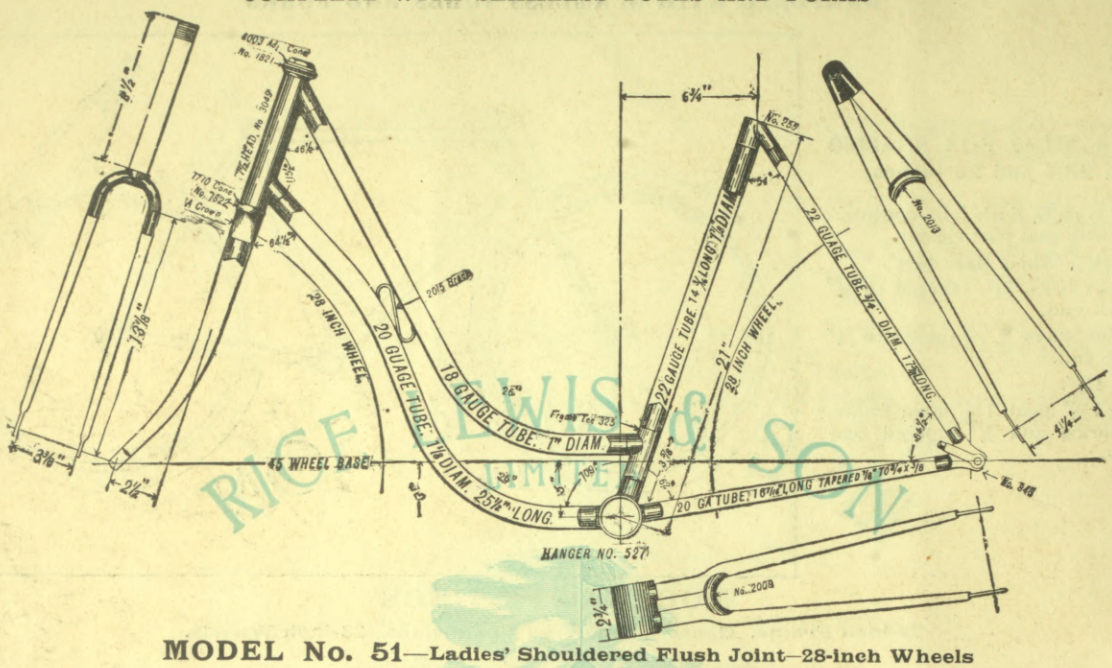
Sets as above with Thompson's No. 2 two-piece Crank Hanger, Nickel-Plated, sprockets up to 26-tooth .....per set $12 00
" " " Fauber Patent one-piece Special " " " " ..... " 13 50
" " " " " " Standard " " " " ..... " 14 50

Add 15c. for every additional two teeth.

See Page Six for Head and Seat Lugs, as used on above sets.

SETS STEEL FITTINGS

COMPLETE WITH SEAMLESS TUBES AND FORKS



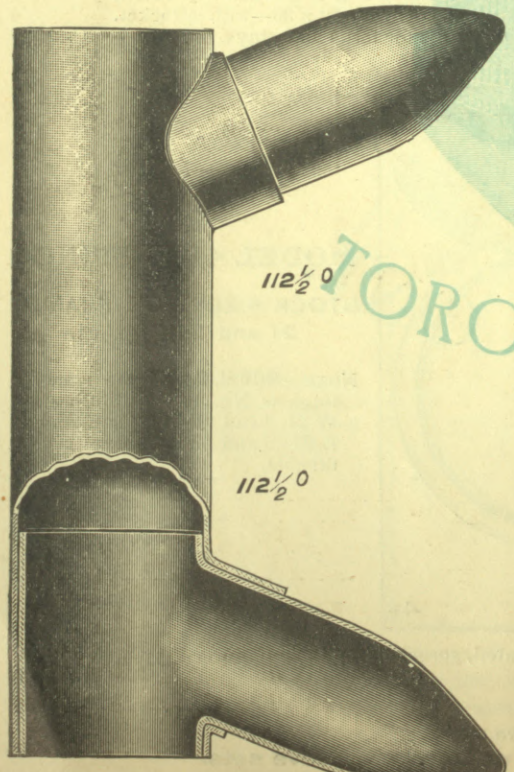
RICE LEWIS & SON LIMITED TORONTO, ONT.

MODEL No. 51—Ladies' Shouldered Flush Joint—28-inch Wheels

STOCK SIZES FOR FRAMES 21 and 23½ inches.

No.	
F	7-in. Ladies' Flush Head 116° x 48°—size 1⅜ x 1⅛".
E-13	Seat post cluster—55¼°—1⅛".
G-3	Rear fork ends (pair), ¾"—18 gauge x ¾"—20 gauge.
O-2	Chain adjusters (pair), forged pattern.
	Fauber Special Crank Bracket—110° front x 63° rear—1⅛ x 1⅛ x ⅞".

No.	
	Fauber hanger cups (pair), with ball retainer,
	" hanger cone (adj.)
	" hanger cone (sta.)
	" hanger locknut, tapped.
	" hanger washer (check), steel balls $\frac{5}{16}$".
A-3	Handle-bar clamp.
A-11	Bolt and nut for H. B. C.
A-22	Head locknut, tapped, 1"—24 pitch.
A-31	Head washer (check).
A-41	Upper head cone, tapped, 1"—24 pitch.
A-51	Upper head cup for 22 $\frac{3}{16}$" balls.
A-61	Lower head cups for 23 $\frac{3}{16}$" balls.
A-71	Lower head cone and 45 steel balls $\frac{3}{16}$".
I-5	Head stem, 16 gauge, thread, 1"—24 pitch.
J-4	Arch crown, forged pattern.
K-4	Forksides (pair), 1" x 19 gauge—2½" throw.
L-2	Hubs (pair), drilled 32 x 36—with sprocket.
P-9	2 arch struts for forks and stays.

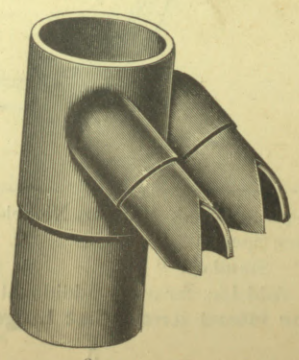


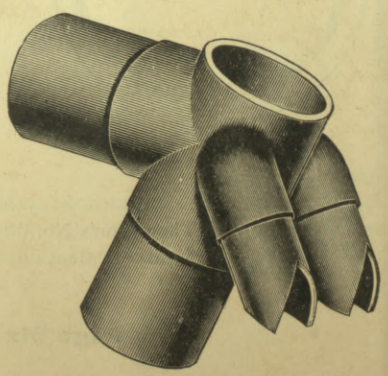
Sets as above with Fauber Patent one-piece **Special** Nickel-Plated Crank Hanger, sprockets up to 26-tooth .....per set, **$14.50**

Sets as above with Fauber Patent one-piece **Standard** Nickel-Plated Crank Hanger, sprockets up to 26-tooth.....per set, **$15.50**

Add 15c. for every additional two-teeth.

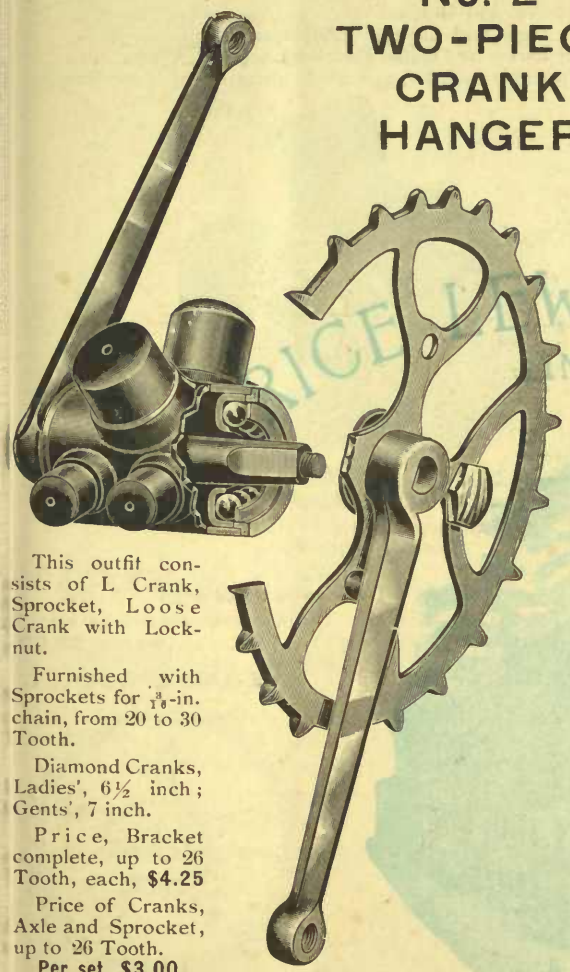
HEAD AND SEAT CLUSTERS AS SUPPLIED WITH SETS Nos. 40 AND 41 ONLY.





BRACKETS

THOMPSON No. 2 TWO-PIECE CRANK HANGER



This outfit consists of L Crank, Sprocket, Loose Crank with Locknut.

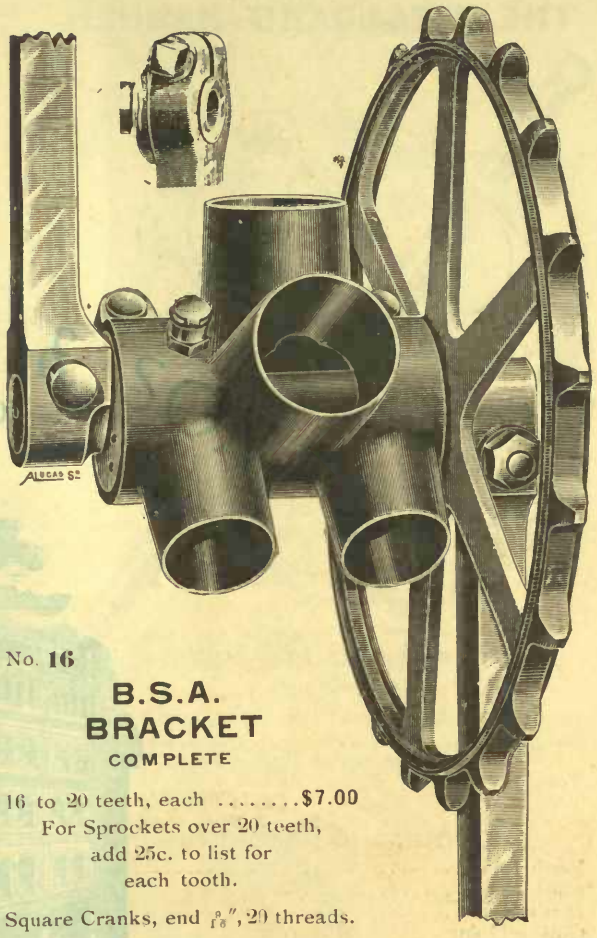
Furnished with Sprockets for $\frac{3}{16}$-in. chain, from 20 to 30 Tooth.

Diamond Cranks, Ladies', 6½ inch; Gents', 7 inch.

Price, Bracket complete, up to 26 Tooth, each, **$4.25**

Price of Cranks, Axle and Sprocket, up to 26 Tooth. **Per set, $3.00.**

B. S. A.



No. **16**

B.S.A. BRACKET

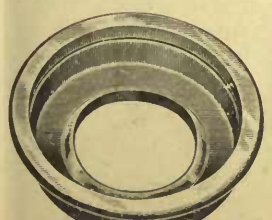
COMPLETE

16 to 20 teeth, each **$7.00**

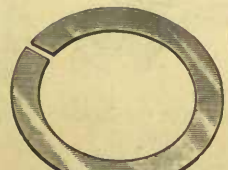
For Sprockets over 20 teeth, add 25c. to list for each tooth.

Square Cranks, end $\frac{9}{16}$", 20 threads.

N.P. CRANK SHAFT FITTING



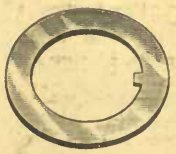
No. B-4 Hanger Cup for 13–$\frac{5}{16}$" Balls. Each, 15c.



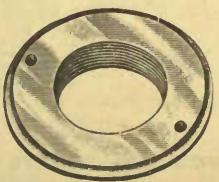
No. 04 Ball Retainer for No. B-4 Hanger Cup.

No. B-4 Hanger Cup and No. 04 Ball Retainer. Each, 15c.

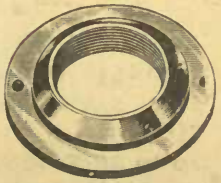
No-B 63 Locknut. Each, 6c.



No. B-84 Washer. Each, 3c.



No. B-23 Adjusting Cone. Each, 25c.



No. B-44 Stationary Cone. Each, 25c.

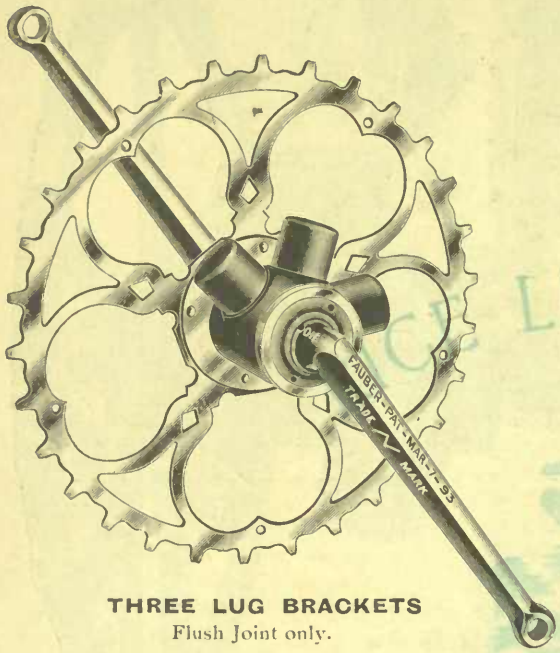
Adjusting Cone and Lock-nut tapped .875"—28 pitch (left), Stationary Cone tapped .870"—30 pitch (right).

Sets Crank Shaft Fittings, 6 pieces, N.P., as above, per set, 85c.

Only the Genuine Bear these Trade Marks

W. H. FAUBER BICYCLE HANGERS

THE STANDARD HANGER



THREE LUG BRACKETS

Flush Joint only.

Front and Middle Lugs ..... 1⅛ and 1¼″
*Rear Lugs ..... 1¼″ only.
(Rear Lugs match Fauber Forks)
Tread ..... 4½″ *Chain Line ..... 1½″
Tread ..... 4⅞″ Chain Line ..... 1⅝″

FOUR-LUG BRACKETS

Flush Joint ..... 1¼ x ⅞″
*Flush Joint ..... 1⅛ x ⅞″
Flush Joint ..... 1 x ¾″
Outside Joint ..... 1¼ x ⅞″
Outside Joint ..... 1⅛ x ¾″
Outside Joint ..... 1 x ¾″

SPECIAL FOUR-LUG FLUSH BRACKET

For Ladies' Frame with Curved Lower Bar.

Flush Joint ..... 1⅛ x ⅞″
Tread, 1¼″ or 1⅛″ ..... 4⅞″
Tread, 1″ ..... 4⅞″ or 4½″
Chain Line, 1¼″ or 1⅛″ ..... 1⅝″
Chain Line, 1″ ..... 1⅝″ or 1½″

ANGLES

Three and Four Lug Brackets.

	Front	Rear
2½″ ..... Drop,	63°	63°
3″ ..... "	61°	61°
3½ to 4″, 30 in. wheels ..... "	61°	59°

Special Ladies' Curved Lower Bar.

*2½″ ..... Drop,	110°	63°

Up to 26-Tooth Sprockets ..each, $5.00

Add 15c. for every addditional two teeth.

SPECIAL TAPS

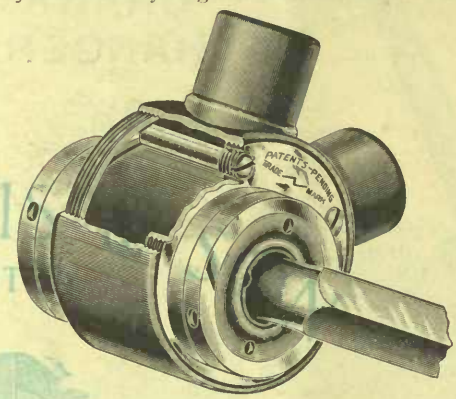
For Re-Tapping Brackets after Brazing.

Right and Left Hand, in pairs, with Mandrell.

* "Stock Sizes." All others to order.

FAUBER ECCENTRIC HANGERS

Eccentric and Bracket made of Drawn Sheet Steel.
Light and Strong. Adjustment Simple.
Secured by Double Positive Locking Device.
Lugs Adjustable to any Angle or Combination of Tube Sizes.



SPECIFICATIONS.

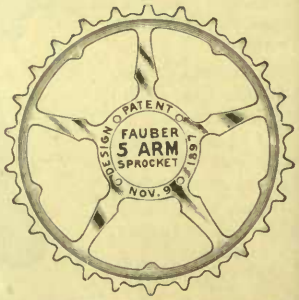
All Rear Lugs for 1¼-16 Gauge Tube.
(Match Fauber Forks).

Other Lugs ..... { For 1⅛, 20 or 22 Gauge Tube. " 1¼, 20 or 22 "
Tread ..... 1½″ only. Chain Line ..... 1½″

Up to 26-Tooth Sprockets ..... each, $8.00

*STAR SPROCKET

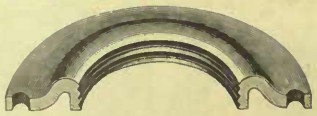
FIVE-ARM SPROCKET



Sizes Sprockets—20, 22, 24, 25, 26, 28, 30 and 32.

Thickness—$\frac{3}{16}$.

*CROWN SPROCKET



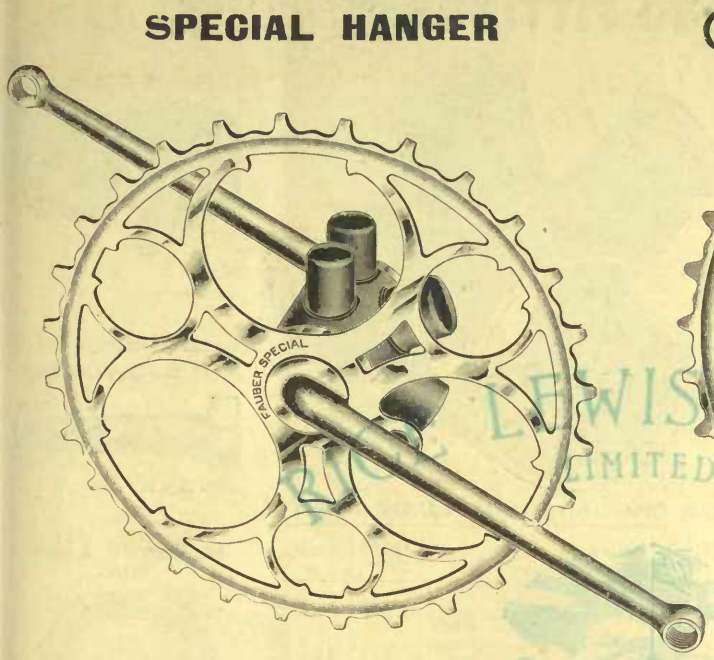
New Spanner Lock Nut furnished on all Fauber hangers.

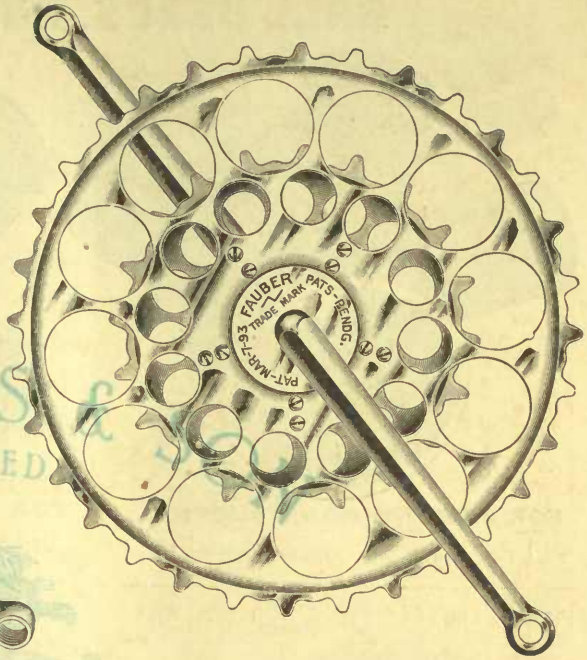
DIAMOND CRANK (as on above Brackets)

*Men's, 6½, 7 and 7½″ *Ladies', 6 and 6½″ *Tread, 4½ and 4⅞″

W. H. FAUBER BICYCLE HANGERS

SPECIAL HANGER





THREE ARM

*Sizes Sprockets.....22, 24, 26 and 28 x $\frac{3}{16}$"

THREE LUG BRACKETS

Flush Joint only.

Front and Middle Lugs .....1⅛ and 1¼"
Rear Lugs.....1¼" only

(Match Fauber Forks).

Tread.....4½" *Chain Line... 1½"
Tread.... ...4⅞" *Chain Line....1⅝"

FOUR-LUG BRACKETS

Flush Joint.....1¼ x ⅞"
*Flush Joint .. ..1⅛ x ⅞"
Flush Joint..... .....1 x ¾"
Outside Joint.....1¼ x ⅞"
Outside Joint.....1⅛ x ¾"
Outside Joint.....1 x ¾"
Tread for 1¼ and 1⅛" ..... 4⅞"
Chain Line for 1¼ and 1⅛" ..... 1⅝"
Tread for 1" .....4⅞ or 4½"
Chain Line 1" .....1⅝ or 1½"

*SPECIAL FOUR-LUG FLUSH BRACKET

For Ladies' Frame with Curved Lower Bar.

Flush Joint ....1⅛ x ⅞"

ANGLES

Three and Four-Lug Brackets.

	Front	Rear
2½"	Drop, 63°	63°
3"	" 61°	61°
3½ to 4", 30 in. wheels ...	" 61°	59°
*2½", Special for Ladies' Curved Lower Bar	" 110°	63°

Up to 26-Tooth Sprockets, each, $4.00.

Add 15c. for every additional two Teeth.

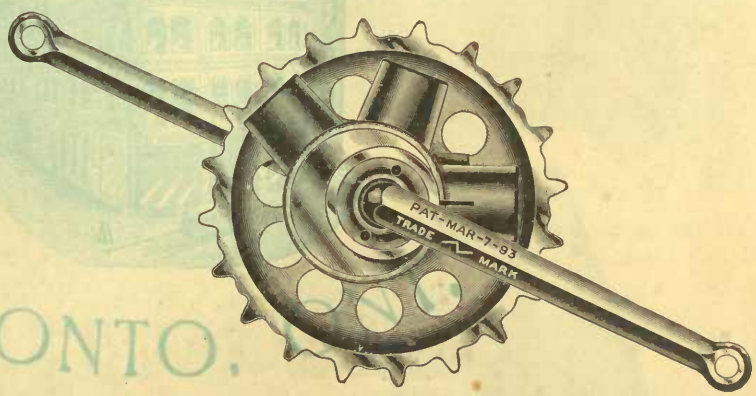
*Stock Sizes All others to order.

REAR HANGER

Tandems, Triplets and Quads.

Brackets for 1¼" Tube. Cranks, Diamond Pattern, 6½ and 7".
Rear Driving Sprockets, 36 and 32 x ¼".

Middle Hanger for Triplets and Quads similar to Front, but fitted with two Sprockets and four Lugs on Brackets.



FRONT HANGER

TANDEM HANGERS

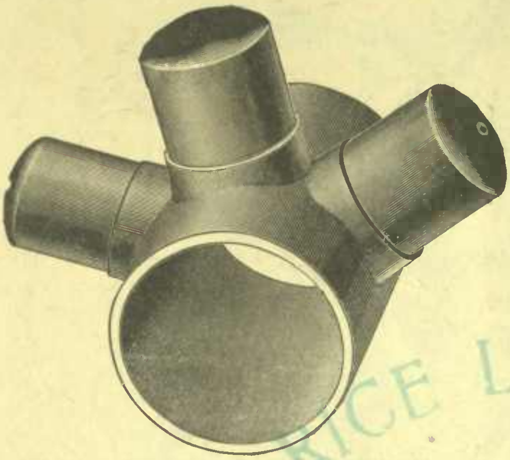
Brackets for 1¼" Tube only. Cranks, Diamond Pattern, 6½ and 7"
Front Sprocket, 20 x $\frac{3}{16}$". Rear Driving Sprocket, 32 and 34 x ¼".
Rear Driving Sprocket, Special Star, 32 x ¼ ".

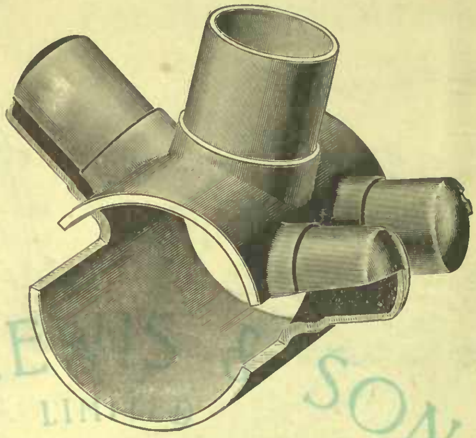
ROUND CRANK (as on Special Hanger)

*Men's—6½ and 7". *Ladies'—6 and 6½".

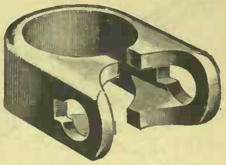
ELECTRICALLY WELDED CRANK BRACKETS

BALL HEADS, AND FITTINGS **Nickel-Plated and Hardened**



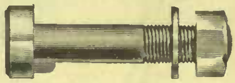


Head Clamp



No. A-3. Each, 15c.

Head Clamp Bolt, Nut and Washer



No. A-11. Each, 7c.

FOR 3 CROWN CONSTRUCTION

No.	Size	Angles	Inside Dia.	Drop
F-12	1¼x1¼x1¼"	61¼° Front 61° Rear	1.767"	3½°

Each, 50c.

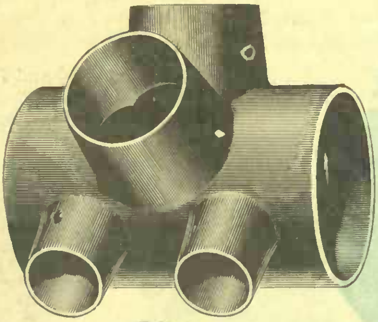
FOR SHOULDERED FLUSH JOINT

No.	Size	Angles	Inside Dia.	Drop
F-10	1⅛x1⅛x⅞"	63¼° Front 63¼° Rear	1.767"	2½"
F-11	1⅛x1⅛x⅞"	64° Front 63¼ Rear	1.767"	2½"
F-15	1⅛x1⅛x⅞"	64° Front 63¼° Rear	1.767°	2¾"

Each, 50c.

Hexagon Lock Nut

No. A-22.
Tapped 1", 24 pitch.
Each, 6c.

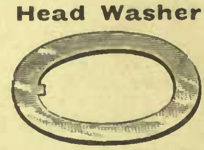


FOR OUTSIDE JOINT

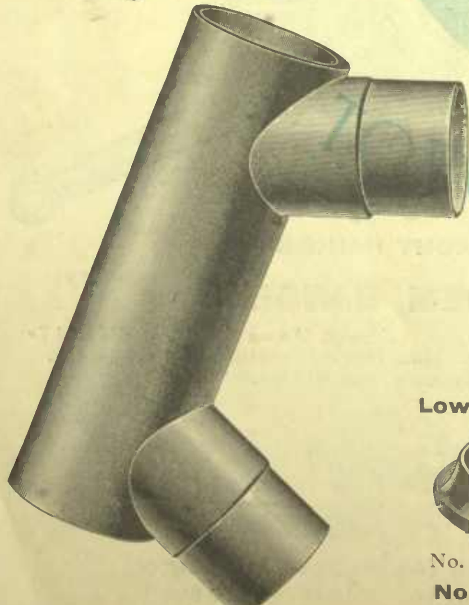
No.	Size	Angles	Inside Dia.	Drop
F-2	1¼x1¼x⅞"	65° Front 67½° Rear	1.767"	1½"
F-5	1⅛x1⅛x¾"	64° Front 65¼° Rear	1.767"	2"
F-6	1⅛x1⅛x⅞"	64° Front 65¼° Rear	1.767"	2"

Each, 50c.

Head Washer



No. A-31. Each, 3c.



ONE-PIECE HEADS

Measure $1\frac{7}{16}$" outside diameter, with branches made to fit 1⅛" 22 gauge tubing.

GENTS'

No. A—4¼" long..............112½°x113½°
No. B—5" “ ....112½°x113½°
No. C—6" “ ....112½°x113½°
No. D—7" “ ....112½°x113½°

Each, 30c.

LADIES'

No. E—7¼" long ....53°x112½°
No. F—7¼" “ ....48°x116°

Each, 35c.

Upper Head Cone, Adjusting

No. A-41.
Tapped 1", 24 pitch.
Each, 15c.

Lower Head Cone

No. A-71. Each, 7c.

Lower Head Cup

No. A-51. Each, 10c.

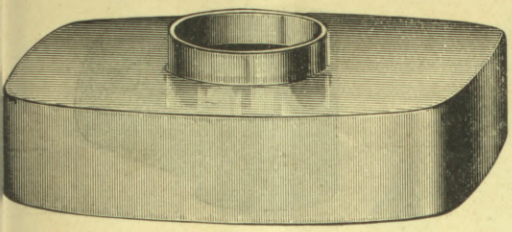
Upper Head Cup

No. A-61. Each, 10c.

No. A Set, complete, 8 pieces, as above ....per set, 65c.
No. B “ “ 6 “ A51, 71, 61, 41, 31, 22 “ 35c.

When ordering state whether for one piece Head or Thompson's Fittings

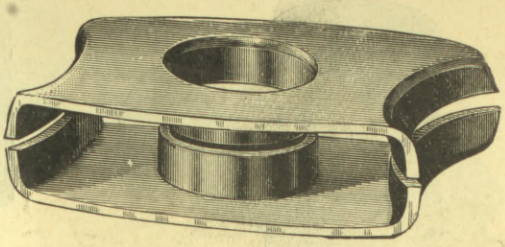
CROWNS



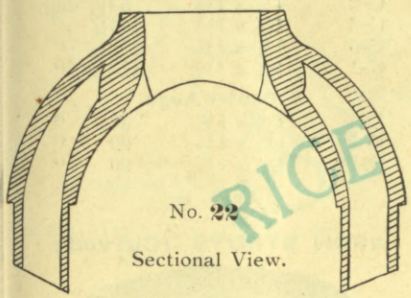
No. 22

BOX CROWN

Showing Construction



Stamping, for 1" Head Stem and Forksides..... .....each, 30c.
Above Crown with pair Brazed Forks to match..... .. " 55c.

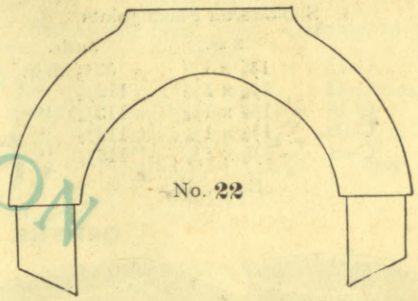


No. 22
Sectional View.

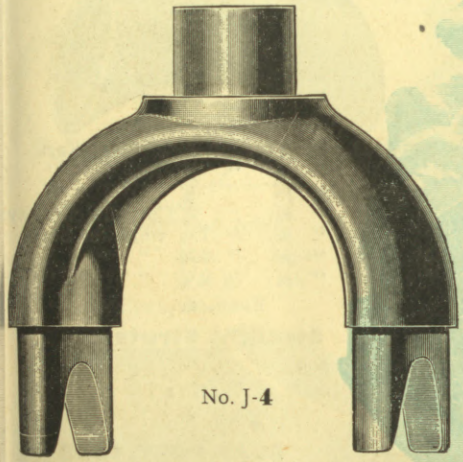
MACHINE DROP-FORGED HOLLOW-ARCHED CROWN

For 1" Stem and 1" Forksides.

Each .....30c.

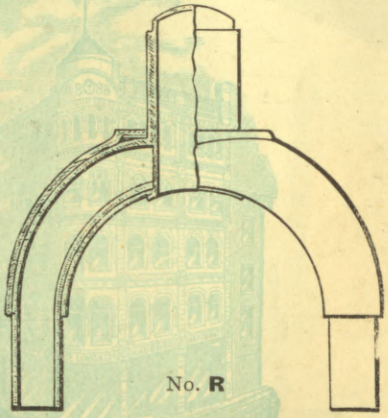


No. 22



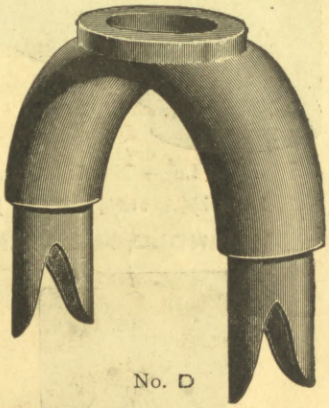
No. J-4

Forging, latest design, for 1" Head Stem, and Forksides made of 1" tubing.
Carefully and Accurately Machined.
Each.....20c.



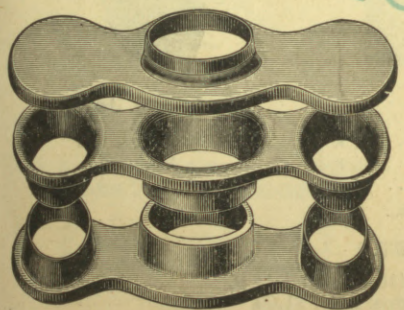
No. R

No. R, Stamping, for 1" Head Stem and Forksides.
Each .....25c.



No. D

No. D, Malleable, for 1" Head Stem and Forksides.
Each .....16c.

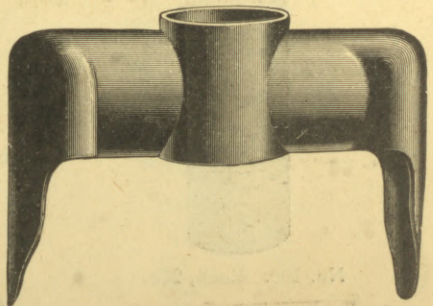


ALUMINUM FORK CROWN TIPS

Assorted patterns.

Per pair.....15c.

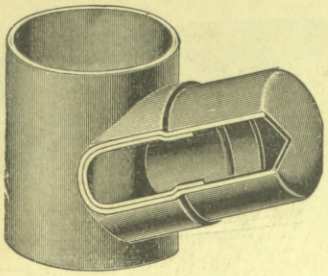
No. J-1, for 1" Stem and $\frac{7}{8}$" Forksides.
" J-2, " 1" " " 1" "
Cupped Crown Plate.
With Crown Plate unless otherwise specified.
Each.....20c.



No. 45, Stamping, for 1" Head Stem and Forksides.
Each .....30c.

RICE LEWIS & SON LIMITED TORONTO, ONT.

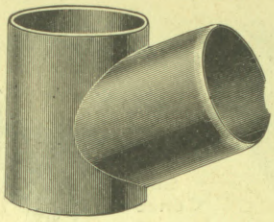
HEAD LUGS



Seamless.
Shouldered Flush Joints

	Size.	Angle.
C–15	1⅜ x 1⅛	53⅓ deg.
C–12	1⅜ x 1⅛	112½ "
C–18	1⅜ x 1⅛	113¼ "
C–22	1⅜ x 1¼	112½ "
C–21	1⅜ x 1¼	115¼ "

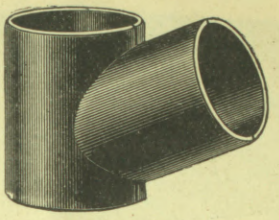
Each, 18c.



Outside—Seamless.

No.	Size.	Angle.
C– 9	1¼ x 1⅛	53½ deg.
C–20	1¼ x 1⅛	110¾ "
C–10	1¼ x 1⅛	112½ "
C–19	1¼ x 1¼	110¾ "
C– 7	1¼ x 1¼	113¼ "
C– 8	1¼ x 1⅛	113¼ "
Centre Lugs		
D–4	1⅛ x 1⅛	59 "
D–5	1⅛ x 1⅛	90 "

Each, 18c.

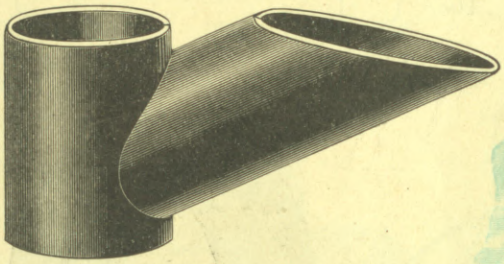


Outside—Two Seams

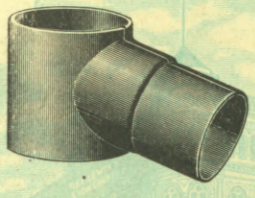
No.	Size.	Angle.
C–2	1¼ x 1⅛	53⅓ deg.
C–6	1¼ x 1⅛	110¾ "
C–5	1¼ x 1¼	112½ "
C–1	1¼ x 1⅛	113¼ "
Centre Lugs		
D–1	1⅛ x 1⅛	59 "
D–3	1⅛ x 1⅛	90 "
D–2	1¼ x 1⅛	90 "

Each, 6c.

CENTRE LUGS

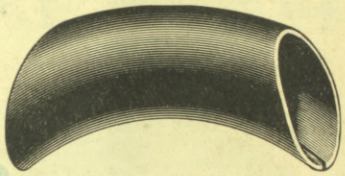


Head Lug—One Seam Long.
1¼ x 1⅛. 112½° Each, 12c.



No. { Mast, Outside, ...1⅛"
8516 { Down Tube Flush, 1⅛"
90°
Each, 8c.

ARCH STRUTS—(Curved)



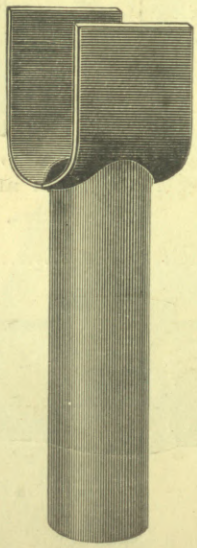
No. 5202, size ¾", to fit ⅞" D Rear Forks
" 5203, " ¾ " ⅞ Rd. " "
" 5204, " ⅝ " ¾ " " "
" 5205, " ⅝ " ¾ Curved Rear Stays
" 5502, " ⅝ " 1⅛ wide, for Stays
" 5503, " ⅝ " 1⅞ " " "
" 5504, " ⅝ " 2¼ " " "

Each, 4c.

Straight Struts

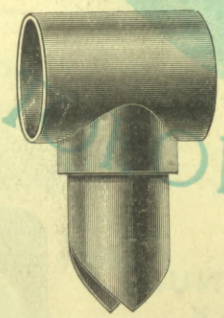
No. 5007 ..... ¾" x 1¾" wide
" 5008 ..... ⅞ x 1⅛ "
Each, 4c.

HANDLE BAR STEM

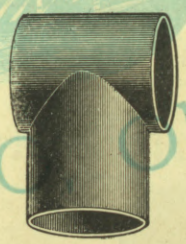


No. 100. Each, 20c.

HANDLE BAR TEES

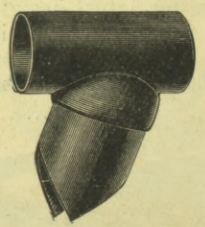


No. 110, ⅞" x ⅞"
Each, 6c.



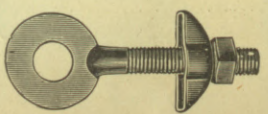
No. 051 ..... 1 x ⅞
" 052 ..... 1 x ¾
" 053 ..... ⅞ x ⅞
" 054 ..... ⅞ x 1 1/16
" 055 ..... ¾ x ¾
Each, 6c.

SEAT POST TEES



Flush Joint
No. 4401, 1 1/16" x ⅝" 70°
Each, 6c.

CHAIN ADJUSTERS

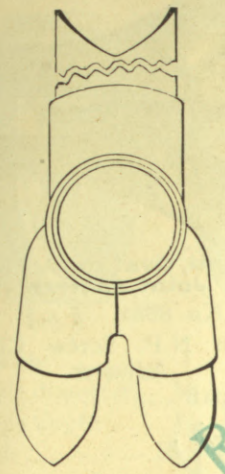


No. 3410, Forged N.P.
Per doz. pair, $1.00.
Per pair, 12c.
No. 5027, Chain Adjusters for Fork Ends. No. G-3
Per pair, 25c.

RICE LEWIS & SON LIMITED

SEAT POST LUGS

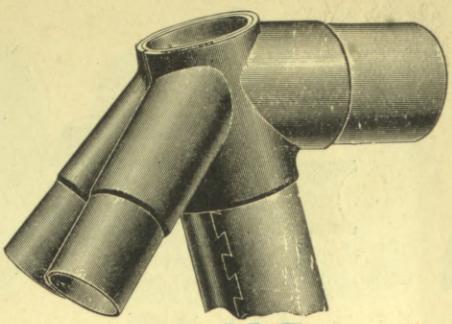
CLUSTERS



Gents'
Shouldered Flush Joint.

	Size.	Angle.
No. 254..	1⅛ x 1⅛ x ¾	71° x 53°

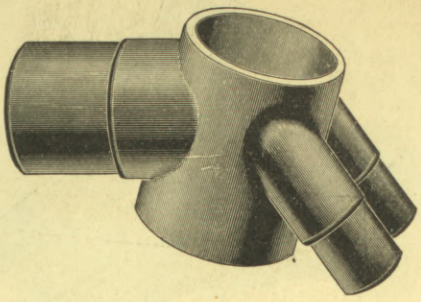
Each, 26c.



Gents'
Shouldered Flush Joint.

	Size.	Angle.
No. 8617	1⅛ x 1⅛ x ¾"	71° x 53

Each, 26c.



Gents' Cluster.
Shouldered Flush Joint. Outside on Mast.

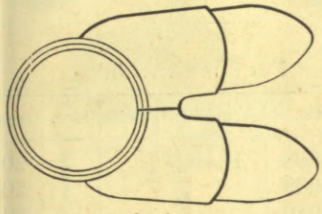
No.	Size.	Angle.	Size Frame.
E-10	1⅛ x 1⅛	71 x 53¼°	22
E-11	1⅛ x 1⅛	71 x 58°	20
E-12	1⅛ x 1⅛	71 x 50¼°	23½

Each, 26c.

For Three-Crown Construction

No.	Size.	Angle.	Size Frame.
E-16	1¼x1¼x1⅛	71 x 53½°	23½

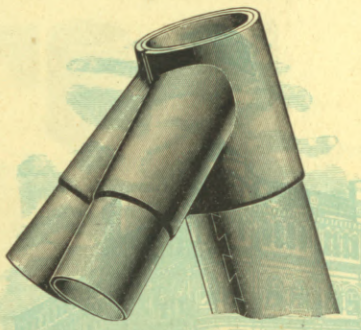
Each, 26c.



Ladies'
Shouldered Flush Joint.

	Size.	Angle.
No. 221	1⅛ x ¾	55°

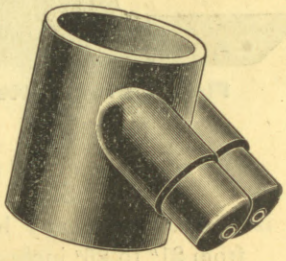
Each, 26c.



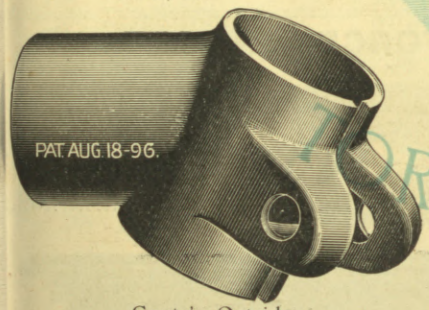
Ladies' Cluster
Shouldered Flush Joint.

	Size.	Angle.
No. 8618	1⅛ x ¾	55°

Each, 26c.



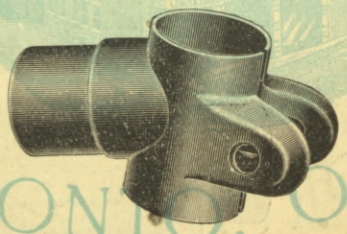
Ladies' Cluster
Shouldered Flush Joint.
No. E-13. 1⅛ x 55¼° for 21" Frame.
Each, 26c.



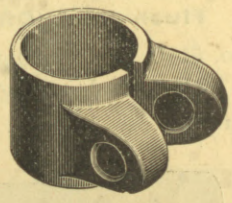
Gents'—Outside.

No.	Size.	Angle.
E-3	1⅛ x 1⅛	71°
4800	1¼ x 1⅛	71°
4850	1¼ x 1¼	71°

Each, 20c.



Gents' Shouldered Flush Joint.
E-7—1⅛ x 1⅛—71°
Shouldered on Top Bar, butt flush on Seat Top Mast.
Each, 20c.



Outside Ladies'

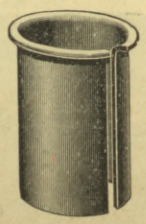
No.	Size
E-1	1⅛
4808	1¼
4810	1⅛

Each, 15c.

N. P. BOLT AND NUT FOR SEAT POST LUGS

	Size.	Doz.	Each.
No. M-1	5/16 x 1⅞	90	8
" M-2	5/16 x 1¾	90	8
	Oval Head.		
" 12	5/16 x 2	60	6

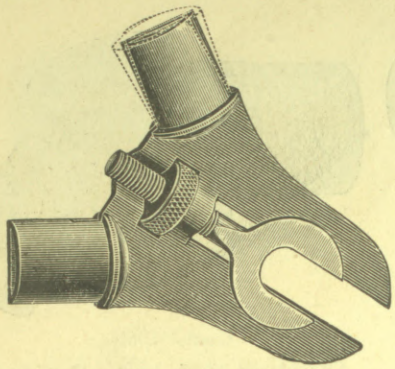
"BUSHINGS" FOR OUTSIDE JOINT SEAT POST LUGS



Fits 1⅛" Tubing. Each, 5c.

RICE, LEWIS & SON LIMITED TORONTO, ONT.

REAR FORK ENDS



Flush Joint Pattern

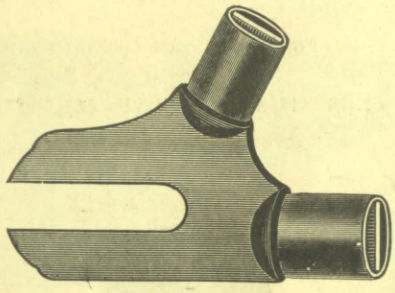
No. G-3.

$\frac{3}{4}$"—18 ga. x $\frac{3}{4}$"—20 ga.

With N.P. Screw Chain Adjuster.

Diagonal Slot.

Per pair.....30c.



Flush Joint Pattern

No. G-4.

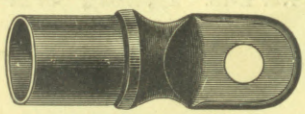
$\frac{3}{4}$"—18 ga. x $\frac{3}{4}$"—20 ga.

Parallel Slot.

This is adjustable to any height frame from 21" to 26" inclusive.

Per pair.....20c.

REAR STAY TIPS

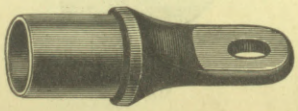


Flush Joint (Offset)

No. 5110, for $\frac{3}{4}$" x 20 ga. Tube.

5111, for $\frac{5}{8}$" x 20 ga. Tube.

Per pair.....10c.

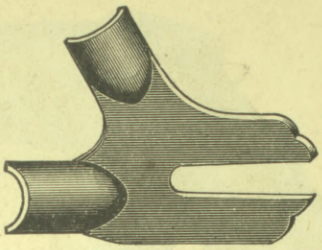


Flush Joint (Central)

No. 5112, for $\frac{3}{4}$" x 20 ga. Tube.

5113, for $\frac{5}{8}$" x 20 ga. Tube.

Per pair.....10c.



D Pattern

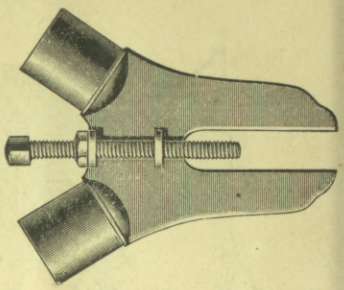
No. 53.

For D Tubes.

Per pair.....20c.

D Brace Tips.

Per pair.....10c.



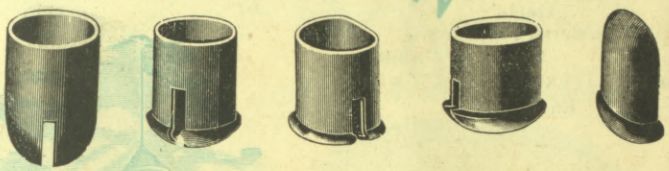
Round, Oval or D Flush Joint Pattern

No. 8634. $\frac{3}{4}$ x $\frac{3}{4}$".

With N.P. Screw Chain Adjuster.

Per pair.....30c.

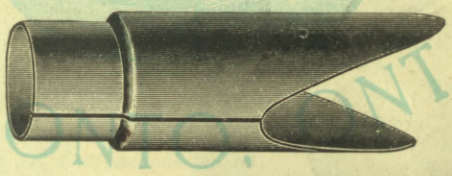
THIMBLES



Per 100.....$2 00. Per doz.....30c.

No.	Style.	Width	Size.	Gauge	No.	Style.	Width	Size.	Gauge
5001	Oval	$\frac{3}{8}$	$\frac{3}{4}$	20	5008	Plain		$\frac{5}{8}$	20
5002	D		$\frac{3}{4}$	20	5009	"		$\frac{3}{4}$	20
5003	D		$\frac{3}{4}$	22	5010	"		$\frac{3}{4}$	22
5004	Shoulder		$\frac{3}{4}$	20	5011	"		$\frac{7}{8}$	20
5005	"		$\frac{3}{4}$	22	5012	"		$\frac{7}{8}$	22
5006	"		$\frac{7}{8}$	20	5013	Bug. B.		$\frac{3}{4}$	20
5007	"		$\frac{7}{8}$	22	5014	"		$\frac{3}{4}$	20

REINFORCEMENTS



No. 8387.

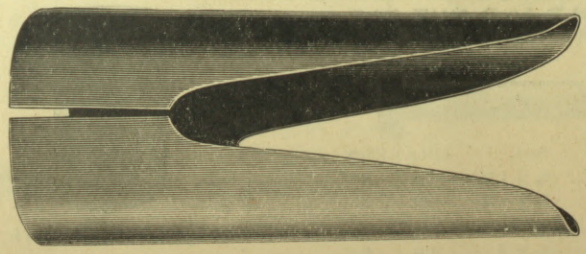
Round, for Flush Joint Connections, $1\frac{1}{8}$."

Per doz. .....32c.

No. 90.

Round, $3\frac{1}{2}$" long, $\frac{3}{4}$ to $1\frac{1}{4}$"

Per doz., 32c.



No. 91.

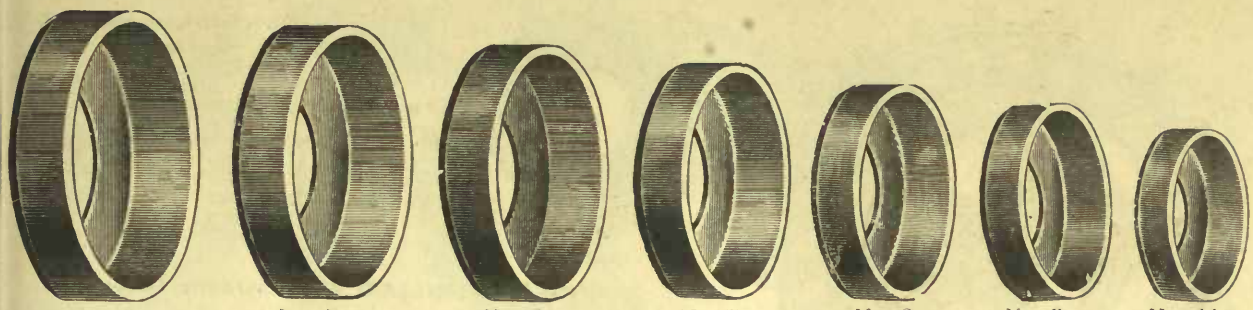
Forksides, $3\frac{1}{2}$" long, 1".

Per doz., 32c

RICE LEWIS & SON LIMITED TORONTO, ONT.

Hardened Pressed Steel Ball Bearing Cups

FULL SIZE

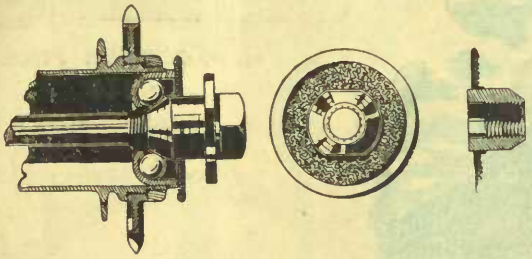


No. 4 No. 5 No. 6 No. 7 No. 8 No. 9 No. 11

Number	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Inside diameter	1 1/2	1 7/16	1 3/8	1 5/16	1 1/4	1 3/16	1 1/8	1 1/16	1	15/16	7/8	13/16	3/4	5/8
Inside depth	13/32	13/32	21/64	11/32	3/8	11/32	25/64	3/8	3/8	5/16	5/16	5/16	3/8	11/32
Each	12c.	12c.	10c.	10c.	10c.	9c.	9c.	8c.	7c.	6c.	6c.	6c.	6c.	6c.

HUB

Will fit 95 ou[illegible]bs.



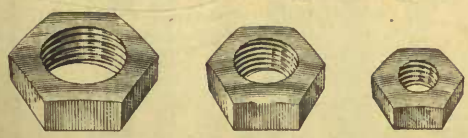
Size	3/8	5/16	9/32
Thread	24, 26 or 28	24, 26 or 28	30
Per doz.	$3.50	3.50	3.50
Each	0.30	0.30	0.30

N. P. WASHERS

Size	1/4	5/16	3/8
Per doz.	10c.	10c.	10c.
Per 100	75c.	75c.	75c.

NUTS

Nickel-Plated, Hexagon Forged



Size Bolt.	Threaded.	Blank, per 100	Threaded, per doz.
1/8"	32	$2 00	30c.
5/16"	24 to 32	2 25	35c.
7/32"	24 to 32	2 50	40c.
1/4"	20 to 32	2 50	40c.
9/32"	20 to 32	2 75	40c.
5/16"	20 to 32	3 00	45c.
3/8"	20 to 32	3 00	45c.

5/8, 3/4, 7/8, 1 and 1 1/8" Head or Bracket, Black...80c.

Round Head Machine Screws for Name-plates, Mud and Chain Guards, Etc.

Per Doz.

No.	2 to 4	6	8	10	12	14
Length, 1/8 or 1/4	4c.	4c.	5c.	6c.	.....	.....
" 3/8	4c.	4c.	5c.	6c.	8c.	10c.
" 1/2	4c.	4c.	5c.	7c.	9c.	11c.
" 5/8	4c.	5c.	6c.	8c.	10c.	12c.
" 3/4	5c.	6c.	7c.	9c.	11c.	14c.
" 7/8		7c.	8c.	10c.	12c.	15c.
" 1		8c.	9c.	11c.	14c.	16c.

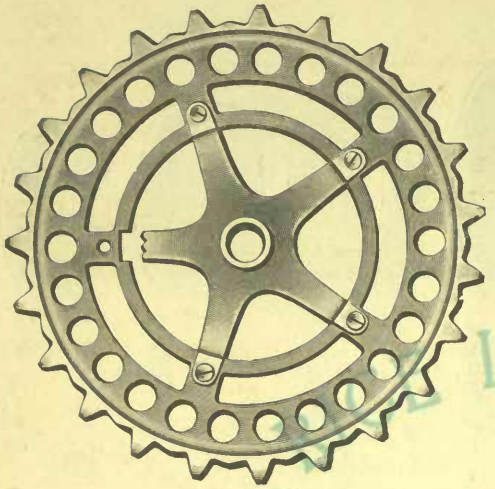
No.	2	3	4	6	8	10	12	14
Size	3/32	7/64	7/64	9/64	11/64	3/16	7/32	1/4
Thread	56	48	36	32	32	24	24	20
Size Drill	49	45	42	35	30	25	17	6

SQUARE TAPPED NUTS

For Machine Screws

No.	2	3	4	6	8	10	12	14
Per doz.	10c.	7c.	7c.	7c.	7c.	8c.	9c.	10c.

MACHINED STEEL FITTINGS



No. **107**

No. **40**

No. 40—Rear Sprocket, teeth milled, bored $1\frac{3}{16}$" hole, not threaded.

7, 8, 9, and 10 teeth.....each, 20c.
12 teeth ..... " 45c.

No. 60—Tempered, threaded and blued.

7	8	9	10 teeth.
50c.	60c.	70c.	80c. each

SPROCKETS—MILLED AND BORED, $\frac{5}{8}$" Hole

	16	17	18	19	20	21 teeth.
No. 113..				$1.00	1.08	1.15 each.
" 107..				1.25	1.30	1.40 "
" 35..	60c.	60c.	60c.	70c.		"

	22	23	24	26	28	30	32 teeth.
No. 113..	$1.25	1.35	1.40	1.65	1.85	2.35	2.85 each.
" 107..	1.45	1.55	1.60	1.80	2.15	2.50	3.00 "

N. P. CRANKS

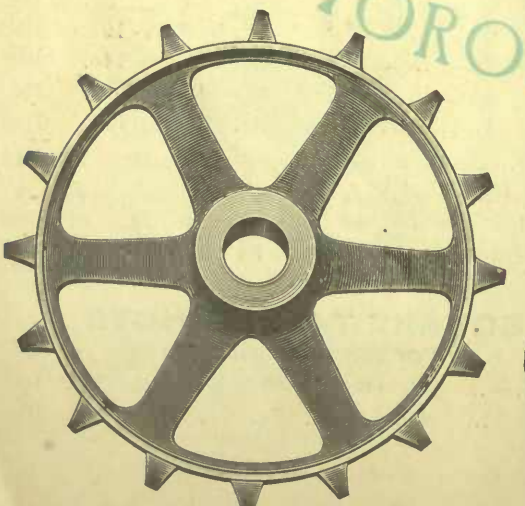
N. P. COTTER PINS

No. **140**

Hardened Steel, with Nuts and Washer.

Per 100, $3.40; doz., 50c.

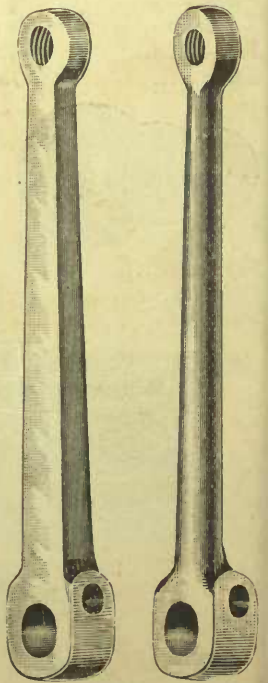
No. **113**



No. **35**

No. **40**
Threaded $\frac{9}{16}$ x 20
$1.50 per pair.

No. **41**
Slotted.
80c. per pair.



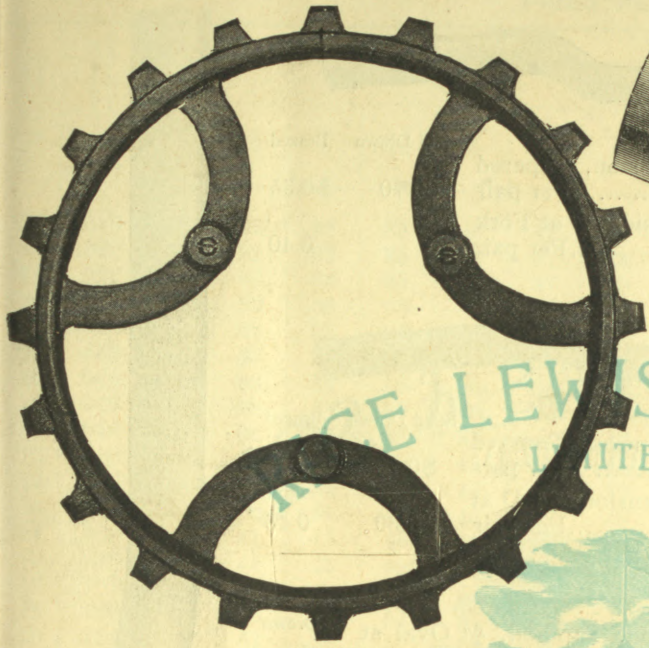
No. **42**
Threaded
½ x 20
60c. per pair.

No. **43**
Threaded
½ x 20
60c. per pair.

THE LEWIS & SON LIMITED TORONTO, ONT.

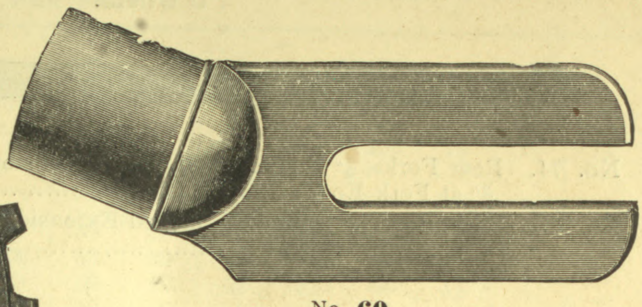
STEEL DROP FORGINGS

THREE-ARM DETACHABLE SPROCKET WHEELS



No. **22**

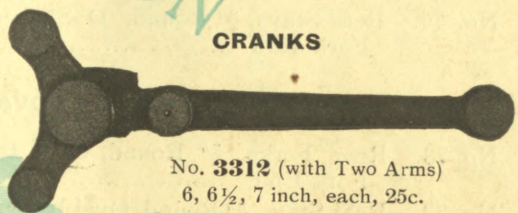
REAR FORK ENDS



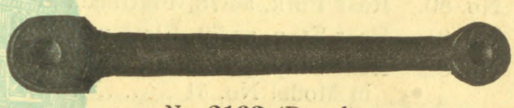
No. **60**

		Per Pair
No. 60.	Rear Fork Ends for ⅞ in. Rear Fork	.....10c.
No. 61.	" " ¾ "	......10c.
No. 62.	" " D pattern, same as No. 31..	20c.
No. 63.	Rear Stay Ends, ⅝ or ¾ in.	..............10c.
No. 64.	" " D pattern, same as No. 32..	10c.

CRANKS



No. **3312** (with Two Arms)
6, 6½, 7 inch, each, 25c.
Left hand to match, each, 12c.



No. **2163** (Round)
Williams' Round, 6, 6½, 7 in., each, 12c.

No. **2850** (Flat)
Williams' Square, 6, 6½, 7 in., each, 15c.

PLAIN SPROCKET WHEELS

No. **21**

SPIDERS

No. **3259**. Ea. 12c.

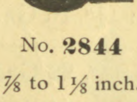
HUB SPROCKET

No. **24**

	16, 17,	18,	19,	20,	21,	22,	23,	24 teeth
No. 21........	35c.,	38c.,	40c.,	43c.,	45c.,	50c.,	60c.,	75c. each
No. 22........	35c.,	38c.,	40c.,	43c.,	45c.,	50c.,	60c.,	75c. "
[illegible]	7,	8,	9,	10 teeth.				
No. 24....	8c.,	10c.,	10c.,	12c. each.				

Sheet Steel Hub Sprockets, 7, 8, 9 teeth ....each, 10c.

HEAD CLAMP

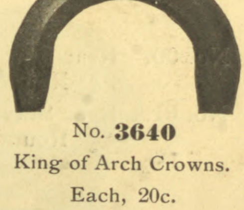


No. **2844**

⅞ to 1⅛ inch.

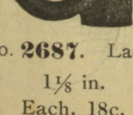
Each, 8c.

ARCH CROWN



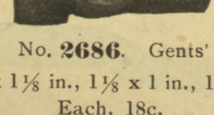
No. **3640**
King of Arch Crowns.
Each, 20c.

SEAT POST LUGS



No. **2687**. Ladies'

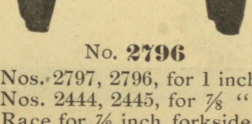
1⅛ in.
Each, 18c.



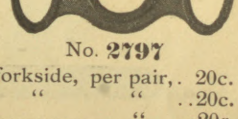
No. **2686**. Gents'

1⅛ x 1⅛ in., 1⅛ x 1 in., 1 x 1 in.
Each, 18c.

DOUBLE CROWN



No. **2796**



No. **2797**

Nos. 2797, 2796, for 1 inch forkside, per pair,. 20c.
Nos. 2444, 2445, for ⅞ " " " ..20c.
Race for ⅞ inch forkside,.......... " ..20c.

RICE LEWIS & SON LIMITED TORONTO, ONT.

FORKS AND STAYS

D STYLE

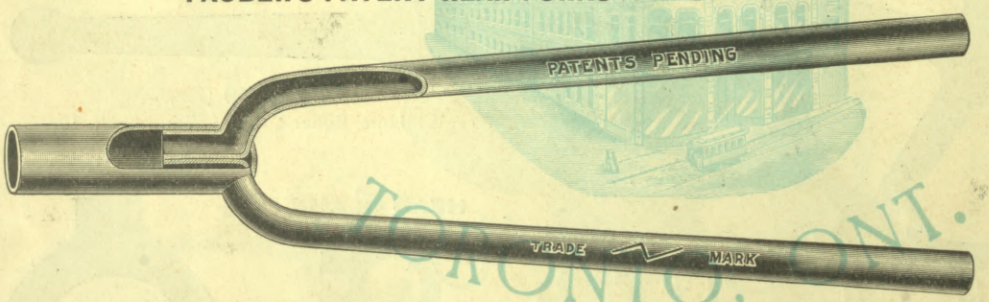
		Solid Drawn	Brazed
No. 74.	Rear Forks, $\frac{7}{8}$" Round, D Shaped Extension, Tapered $\frac{3}{4}$" at Fork End ..... Per pair	$0.70	$0.35
No. 75.	Rear Stays, $\frac{3}{4}$" Round, D Shaped Extension, $\frac{3}{4}$" at Fork End ..... Per pair		0.40

		Solid Drawn	Brazed
No. 76.	Rear Forks, $\frac{7}{8}$" Round, D Shaped Extension, Tapered $\frac{3}{4}$" D at Fork End ..... Per pair	$0.70	$0.35
No. 77.	Rear Stays, $\frac{3}{4}$" Round, D Shaped Extension, $\frac{3}{4}$" D at Fork End ..... Per pair	0.80	0 40

OVAL

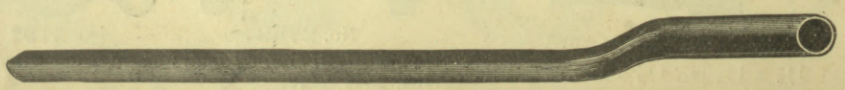
		Solid Drawn
No. 78.	Rear Forks, $\frac{7}{8}$" Round, Oval Extension, Tapered, $\frac{3}{4}$" Oval at Fork End ..... Per pair	70c.
No. 79.	Rear Stays, $\frac{3}{4}$" Round, Oval Extension, $\frac{3}{4}$" Oval at Fork End "	80c.
No. 80.	Rear Fork, as 78, Flattened at Fork End ..... "	70c.
No. 81.	Rear Stay, as 79, Flattened at Fork End ..... "	80c.
No. 82.	Rear Stay, $\frac{3}{4}$" Round, Oval Extension $\frac{3}{4}$" at Fork End, Bend as in Model No. 51 ..... Per pair	80c.

FAUBER'S PATENT REAR FORKS AND STAYS



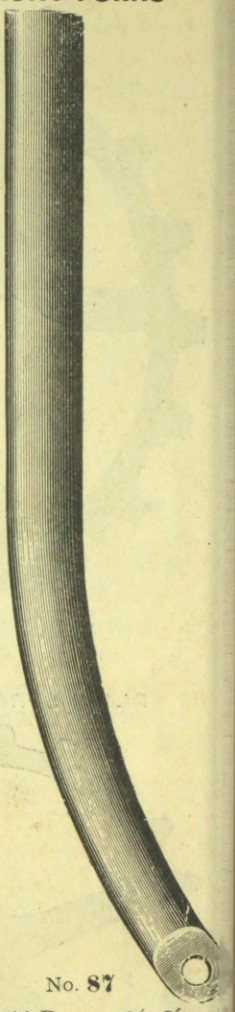
		Drawn	Brazed
No. 00.	Rear Forks, Stem $1\frac{1}{4}$", 16 Ga., Sides 18 Ga., Tapered to $\frac{3}{4}$" Round ..... Per set	$2.00	$1.35
No. 01.	Rear Stays, Stem $1\frac{1}{8}$", 22 Ga., Sides 20 Ga., Tapered to $\frac{3}{4}$" Round ..... Per set	2.00	1.35

No. 86. Solid Drawn, $\frac{7}{8}$" Round, Cranked, Oval ..... Per pair 70c.



No. 85. Solid Drawn, $\frac{7}{8}$" Round, Cranked, D Shaped..... Per pair 70c.

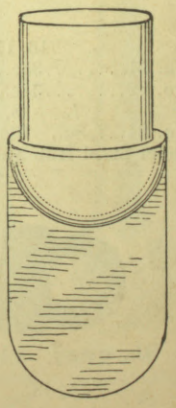
FRONT FORKS



No. **87**

Solid Drawn, ¾, ⅞ or
per pair 60
Brazed, ⅞ or 1", pair 26
Our Weldless forks a
New Improved Patter
with swaged ends.

FORK END TIP



Per doz., 40c.
Each, 5c.

RICE LEWIS & SON LIMITED TORONTO, ONT.

WELDLESS STEEL TUBING

PRICE PER FOOT

English Standard Wire Gauge	Equivalent in Fraction of Inch	DIAMETER OF EXTERIOR IN INCHES													
		$\frac{1}{2}$	$\frac{9}{16}$	$\frac{5}{8}$	$\frac{11}{16}$	$\frac{3}{4}$	$\frac{13}{16}$	$\frac{7}{8}$	$\frac{15}{16}$	1	$1\frac{1}{16}$	$1\frac{1}{8}$	$1\frac{3}{16}$	$1\frac{1}{4}$	$1\frac{3}{8}$	$1\frac{1}{2}$
26	.018	30	32	33	35	36	37	38	39	40	41	42	43	...	..	...
25	.020	30	32	33	35	36	37	38	39	40	41	42	43	...	...	...
24	.022	30	32	33	35	36	37	38	39	40	41	42	43	44	...	...
23	.025	30	32	33	35	36	37	38	39	40	41	42	43	44	...	...
22	.028	30	32	33	35	36	37	38	39	40	41	42	43	44	48	50
21	.032	30	32	33	35	36	37	38	39	40	41	42	43	44	48	50
20	.035	31	33	34	36	38	38	39	40	41	42	43	45	46	49	52
19	.042	31	33	35	37	38	39	40	41	42	44	45	47	48	52	55
18	.049	32	34	36	38	39	41	42	43	44	46	48	50	51	55	60
17	.058	33	35	37	39	41	43	44	46	47	49	51	53	55	60	65
16	.065	35	37	39	41	43	45	47	49	50	53	55	58	60	65	70
15	.072	37	39	41	43	45	47	49	52	54	57	59	62	64	70	75
14	.083	38	41	43	46	48	50	52	55	57	60	63	66	69	75	81
13	.095	40	43	45	48	50	53	55	59	62	65	68	72	75	81	88
12	.109	42	45	48	50	54	57	59	63	66	70	73	77	81	88	95
11	.120	45	48	51	54	57	60	63	67	70	74	78	83	87	94	102
10	.134	...	51	54	57	60	64	67	71	74	79	84	89	94	102	110

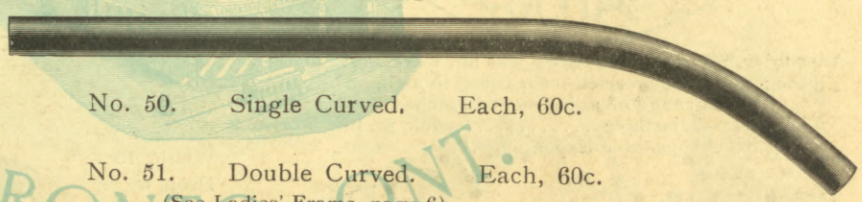
FIG. 86. D PATTERN. 7-8 x 20 G.

HEAD STEMS

(Machined)

1" x 16 W. G. 12" over all. Threaded 1" x 24 pitch. Each, 30c.

BENT BARS



No. 50. Single Curved. Each, 60c.

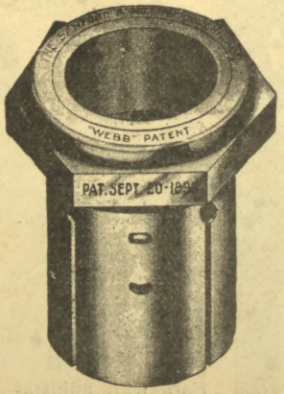
No. 51. Double Curved. Each, 60c.

(See Ladies' Frame, page 6).

No. 3 Expanding Seat Post.
Sizes, $\frac{1}{16}$, 1, $\frac{15}{16}$, $\frac{7}{8}$".
Each, 50c.

SPRING SEAT POST.

Each, $2.00.



No. 4, $\frac{7}{8}$ inside, $1\frac{1}{16}$ outside for $1\frac{1}{8}$ tubing.
No. 4 Expander. Each, 28c.
Other sizes to order.

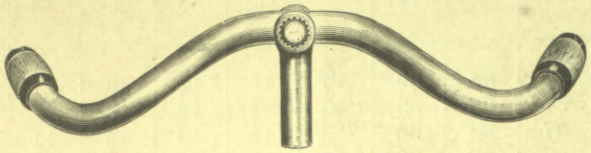
THE LEWIS & SON LIMITED TORONTO, ONT.

HANDLE BARS

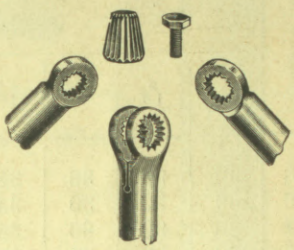
HEAVILY NICKEL-PLATED ON COPPER, WITH $\frac{7}{8}$-in. POSTS, NO GRIPS

Special Sizes of Posts to Order.

FREDRICK ADJUSTABLE



Adjustable to Every Position.



Construction of Clamp.

The side arms are supported both back and front. The corrugated ratchet plug works on the principle of a wedge, and should the rider fail to properly tighten up the bolt after he has made an adjustment, the corrugated plug will prevent the arms from falling down. **This is not so in any other bar.** The slits in the stem allow the head lugs to give a trifle, thus bringing pressure against bolt head, which absolutely prevents the bolt working loose. The expander is invisible.

No. **85**—Adjustable.....each, $2.10 No. **84**—Adjustable, Expanding.....each, $2.20

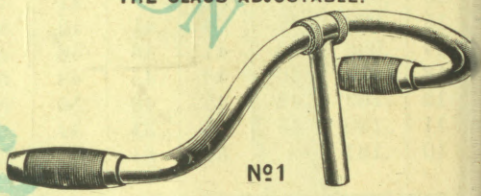
Adjustable, secure and simple; will not work or wear loose; may be converted from a drop to an upturn. Has a range of adjustment 15 inches.

No. **87**—Adjustable .....each, $2.10
No. **86**—Adjustable Expanding .. " 2.20

THE CLAUS ADJUSTABLE.

No. **1**

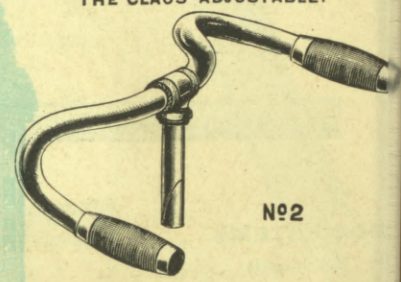
Width, 18"
Drop, 2"
Forward, 3"



THE CLAUS ADJUSTABLE.

No. **2**

Width, 18"
Drop, 2"
Forward, 3"

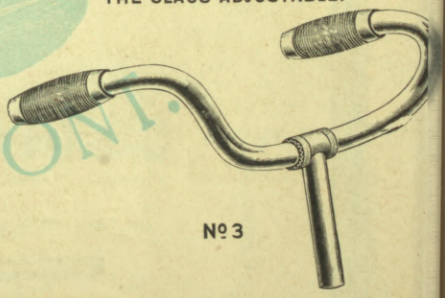


THE CLAUS ADJUSTABLE.

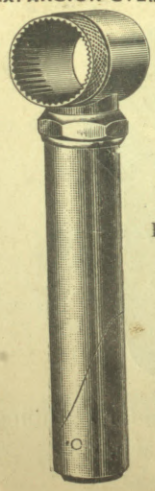
No. **3**

Width, 16"
Drop, 3"
Forward, 2½"

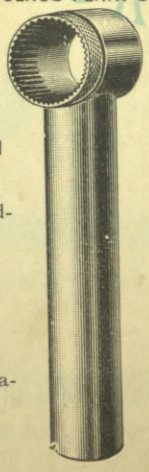
Width, 18"
Drop, 4"
Forward, 2"



THE CLAUS EXPANSION STEM.



THE CLAUS PLAIN STEM



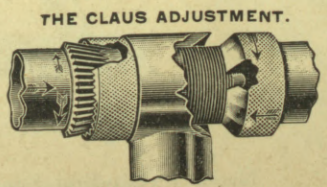
EXPANSION STEM

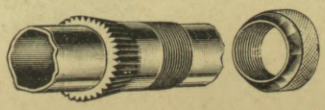
No. **1**, **2** or **3**
Bars with expanding adjustable stem.
Each, $2.20

PLAIN STEM

No. **1**, **2** or **3**
Bars with adjustable stem.
Each, $1.90

THE CLAUS ADJUSTMENT.



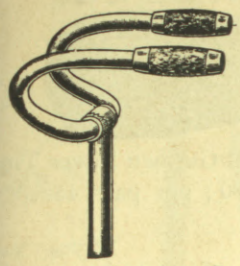


RICE LEWIS & SON LIMITED TORONTO, ONT.

STEEL HANDLE-BARS

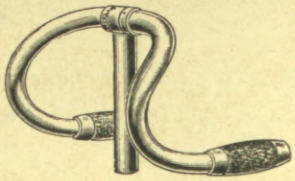
HEAVILY NICKEL-PLATED ON COPPER, WITH $\frac{7}{8}$-in. POSTS, NO GRIPS

Special Sizes of Posts to Order



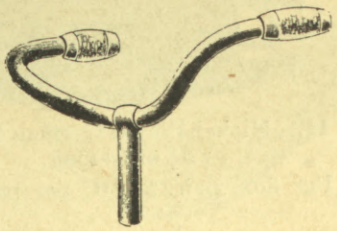
No. 7-A, Adjustable, 17 or 18″. Each, $1.85.

No. A, Up-turn, Stationary, 17 or 18″ Each, $0.85.



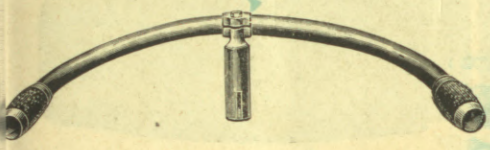
No. 7-B, Adjustable, 16″. Each, $1.85.

No. B, Down-turn, Stationary, 16″. Each, $1.05.



No. 7-D, Adjustable, 17 or 18″ Each, $1.85.

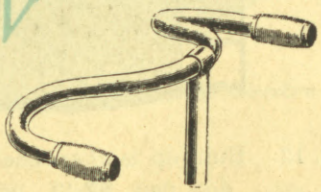
No. D, Up-turn, Stationary, 17 or 18″ Each, $0.85.



No. 88, Perfection, Adjustable, Expanding. Each, $1.10.

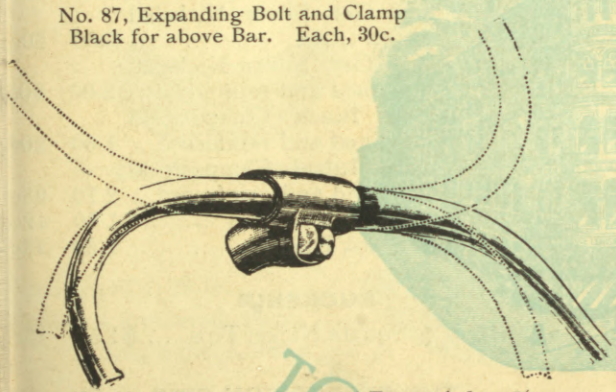
No. 87, Expanding Bolt and Clamp Black for above Bar. Each, 30c.

No. D, Down-turn, Stationary, 17″. Each, $0.85.



No. 7-E, Adjustable, 18″. Each, $1.85.

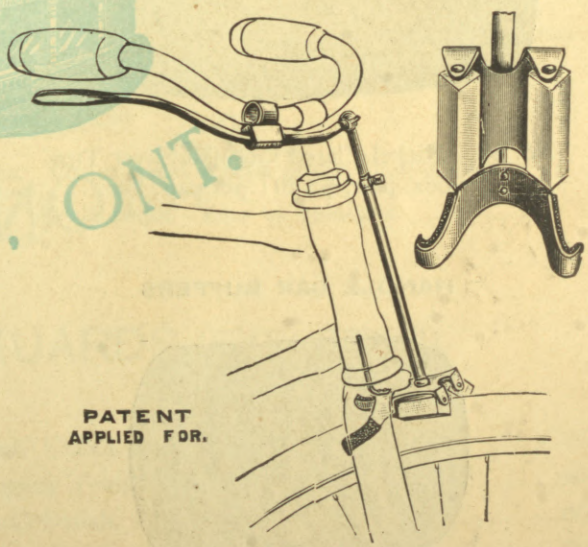
No. E, Down-turn, Stationary, 18″. Each, $0.85.



No. 89, Adjustable, Bent and Tapered, 1 to $\frac{7}{8}$″. Each, $1.50.

THE "BALDWIN" BRAKE

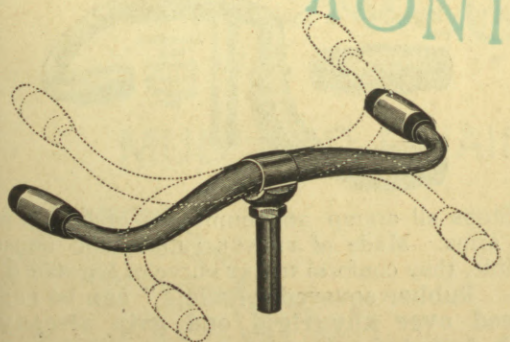
Can be attached to any Bicycle in Two Minutes



PATENT APPLIED FOR.

No. **3**

Complete. Each, $2.00.



No. **90**

No. 90, Wood Bar, with Adjustable N. P. Clip with Grips. Each, $1.00.

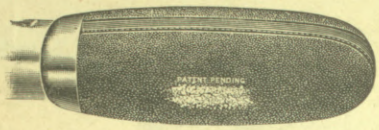
No. 90½. Ditto, Mahogany Finish. Each, $1.00.

No. 91. Ditto, Adjustable, Ram's Horn. Each, $1.50.

RICE LEWIS & SON LIMITED TORONTO, ONT.

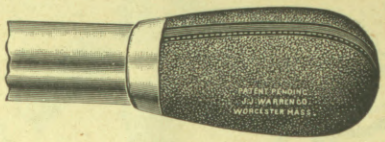
GRIPS

LEATHER



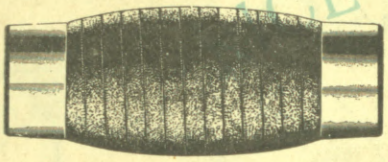
No. 11. Nickel-Plated German Silver Tips.
3½ or 3″ long.
Per doz. pair, $4.50; per pair, 40c.

LEATHER



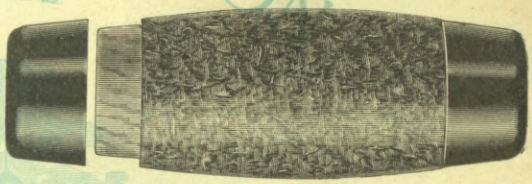
No. 7. Nickel-Plated German Silver Tips.
Per doz. pair, $4.80; per pair, 45c.

Made from selected grain leather, stitched on to wood grooved reinforcing, into which groove seam in leather is sunk, making grip perfectly smooth.



No. 12. Built-up leather, lined and reinforced, per doz. pair, $2.40; per pair, 25c.

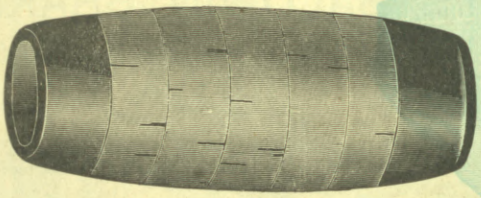
CORKALINE



	Size.	Per doz. pair.	Per pair.
No. 14.	⅞″ Square Nickeled Tips	$1.30	15c.
28.	1″ Square Ger. Silver Nickeled Tips	2.00	20c.
25.	⅞″ Square Ger. Silver Nickeled Tips, lined and reinforced	2.00	20c.
26.	⅞″ Square Black Composition Tips, lined and reinforced	1.60	20c.
27.	⅞″ Square Inlaid Composition Tips, lined and reinforced	2.70	25c.
24.	Square White Celluloid	1.20	12c.
23.	Square Black Ebonite	1.20	12c.

SOLID WRAPPED CORK

Selected Quality

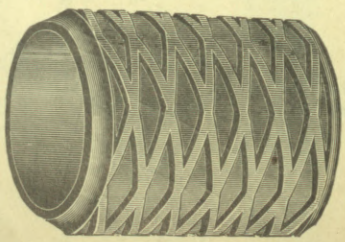


No. 30. Nickel-Plated German Silver Tips.
Per doz. pair, $3.20; per pair, 30c.

BUCKSKIN

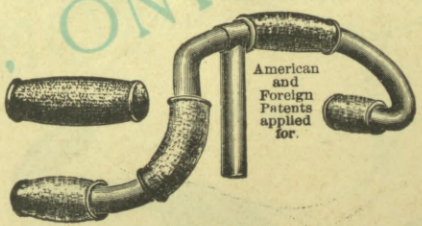
No. 17. 1 3/16 or ¾″ Square Nickel Tips.....$1.50 15c.

HANDLE BAR BUFFERS



Rubber Buffers.
Per doz., $1.00; each, 12c.

THE PERFECTION GRIP



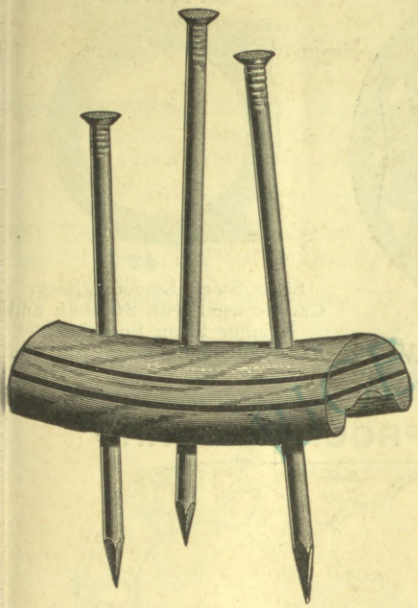
Stops all cramp and numbness of hands, wrists and arms. Made of SPONGE rubber and unusually flexible, they conform to ANY curve of bar and fit ANY size. **Rubber covered "Reliefs" can be readily forced over any rigid end grip already on with powered soapstone and so slid into position.**

Plain Rubber .....per pair, 75c
Soft leather covered ..... " 90c

ALICE LEWIS & SON LIMITED TORONTO, ONT.

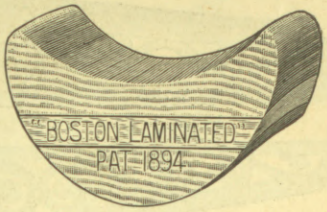
WOOD RIMS

BOWMANVILLE

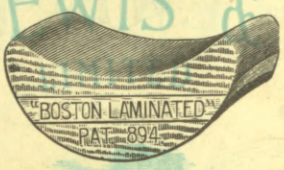


Dominion Dunlop

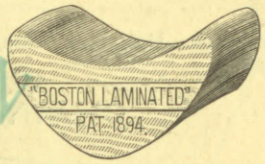
Sulky



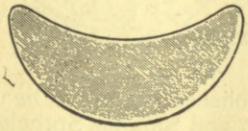
Tandem



Crescent

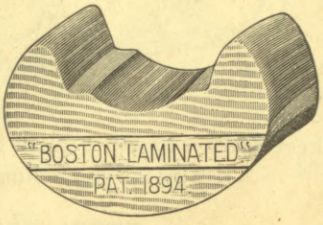


Crescent, Deep Centre



Single Piece Crescent

G. & J.



Dunlop

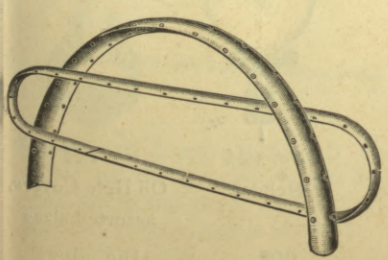
	Crescent Pattern		Dunlop or G. & J. Pattern	
	per doz.	per pair.	per doz.	per pair.
Bowmanville, 28-in.	$12 00	$1 15	$13 60	$1 25
Boston Laminated, 28-in.	12 80	1 20	14 50	1 35
" Single-piece, 28-in.	8 00	80		

Sulky, $2 00 per pair.
Tandem, 1 50 "

30-inch Rims, 15c. per pair extra on above prices. Other sizes, special prices on application.

We carry a Stock of SECONDS SUITABLE FOR REPAIR WORK. Price on application.

MUD AND CHAIN GUARDS (EYELETED)

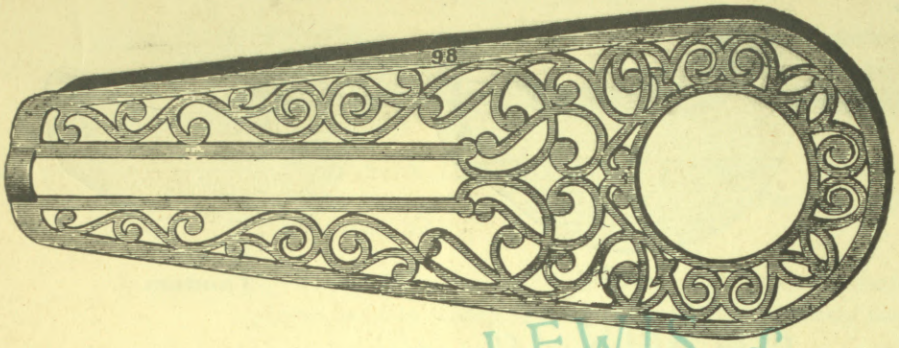


Natural Finish, open, per pair .....30c.
Mahogany Finish, open, per pair .....30c.
Natural Finish, continuous, per pair .....35c.
Birdseye Maple, continuous, per pair .....60c.
Quarter-cut Oak continuous, per pair.....65c.

LEWIS & SON TORONTO, ONT.

CHAIN GUARDS

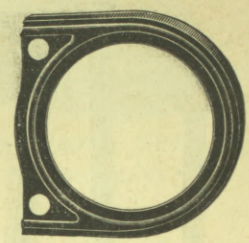
CHAIN GUARD



No. **43**

Aluminum, Polished Face, standard length for wheel.....Each $2 00

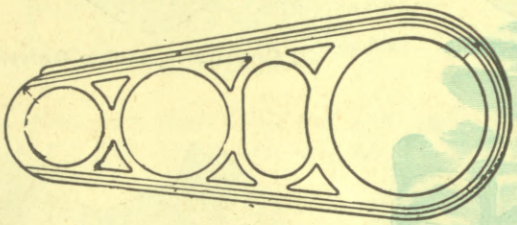
SPROCKET SHIELD



No. **42**

Sheet Steel, Smooth Finish. Can be used with 24 tooth and Smaller Front Sprockets. Ready for Enamelling. Ea. 25c.

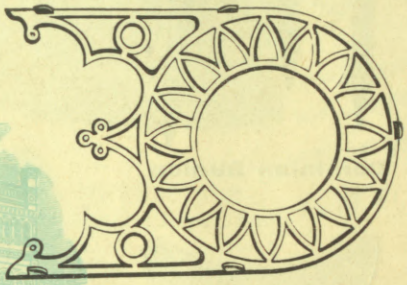
CHAIN GUARD



No. **44**

Sheet Steel, Smooth Finish, for 24 tooth and Smaller Sprockets. Ready for enamelling,.....Each, 50c.

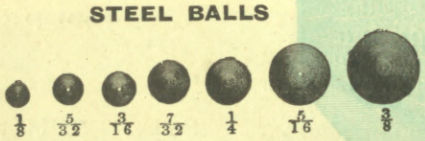
SPROCKET GUARD



No. **41**

Aluminum, Polished Face, can be used with 24 tooth and Smaller Sprockets. Each, 60

STEEL BALLS



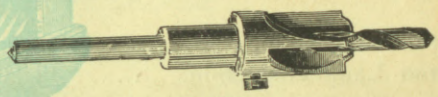
Made of the finest cast steel, best finish and most accurate; done up in 100 lots only; less quantities at list price net.

$\frac{1}{8}$	$\frac{5}{32}$	$\frac{3}{16}$	$\frac{7}{32}$	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	inch diam.
$0.15	0.18	0.20	0 30	0.30	0 38	0.65	per 100.

Prices on application for larger sizes and quantities.

Also for **2nds** suitable for agricultural and machine work.

RIM COUNTERSINK AND DRILL

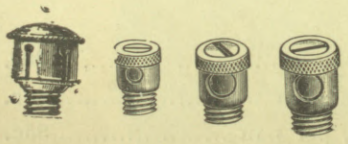


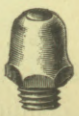
No. **32**

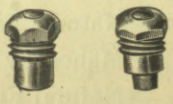
This will drill holes for any style wished, and is made of the highest grade steel.

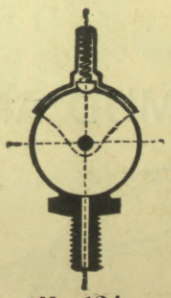
Each, 80c.

OILERS



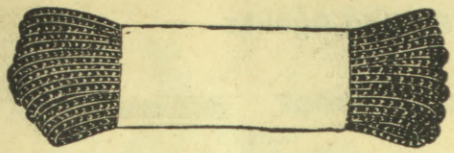






No. **123**	No. **3**	No. **2**	No. **1**	No. **6**	No. **8**	No. **10**	No. **12**	No. **124**	No. **121**
Spring Cap	Shanks Threaded							Helmet.	Oil Hole Covers
25c. doz.	$\frac{5}{32}$x40	$\frac{3}{16}$x32	$\frac{7}{32}$x28	$\frac{7}{32}$ x 28	$\frac{1}{4}$ x 26	$\frac{1}{4}$ x 26	$\frac{1}{4}$ x 26		assorted sizes
	50c.	50c.	50c.	30c.	35c.	40c.	40c.	60c.	15c. doz.

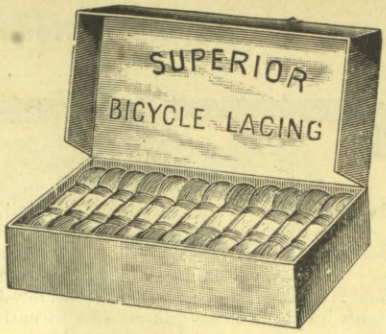
LACING CORD



Woven Mohair in Hanks, 72 yards each, black, yellow, ruby, brown, or mixed black and yellow, black and ruby, ruby and yellow.
Per Hank ..... 40c.

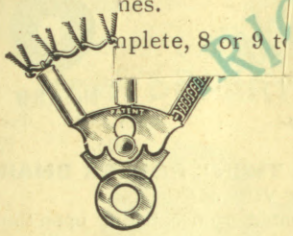
-ply **Twisted Silk** in Hanks, 18 yards each, same colors...Per doz. hanks, $2 50; per hank, 25c.

-ply **Twisted Silk** in Hanks, 18 yards each, same colors...P[illegible] hanks, $1.50; per hank, 15c.



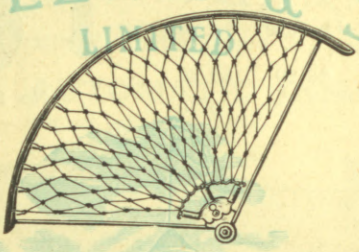
Woven Mohair in Hanks, 18 yards each. Boxes of 12 hanks, assorted colors.
Per box..... $1.50

nes.
nplete, 8 or 9 t[illegible]



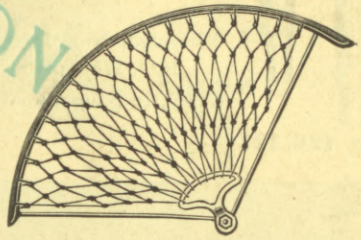
No. **1**

Detachable Lacing Clip allows dress guard to be taken off without removing axle nut.
Per doz. pair $2.25
Per pair 0.25



No. **2**

Dress Guard with Hooks at top to fit into eyelets of mud guard, with detachable lacing clip No. 1. Silk, all colors.
Per set.....70c.

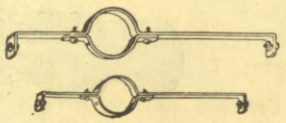


No. **3**

Dress Guard with Hooks at top to fit into eyelets of mud guard with plain lacing clip. Mohair, all colors.
Per set .....45c.

No. **4**

Separate Lacing Loops. Made from bright steel stamping, nicely nickeled. Fits over a ⅜" axle.
Per pair..... 6c.

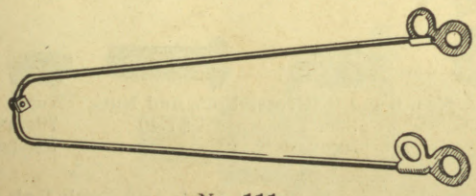


Cut shows one complete set.

Chain Guard Braces. Bright steel, nicely nickeled.
No. 11 ..... Per set, 25c.
No. 12 ..... " 25c.

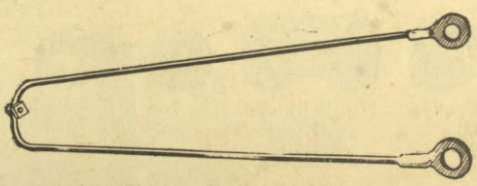
In set No. 11 the long brace is about 7¾" long. In set No. 12 the long brace is 8½" long. In both sets the short, or rear brace is about 5½" long. Every set is wrapped in a separate paper with screws and nuts in an envelope.

MUD GUARD BRACES



No **111**

Made from bright steel, all parts well nickeled. This brace has two loops, one to go over axle, one for lacing cord, both loops in one piece. Our special design, and a favorite. Correct length for 28-inch wheels.
Each .....25c.



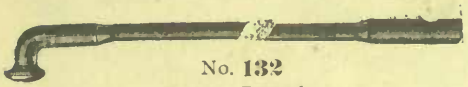
No. **112**

Made from bright steel, all parts nickeled. The eyes of this brace can be unscrewed from the wire. Correct length for 28-inch wheels.
Each .....20c.

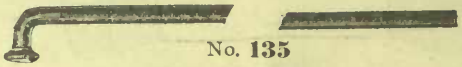
RICE LEWIS & SON LIMITED TORONTO

SPOKES

Excelsior Needle Company's Selling Agents

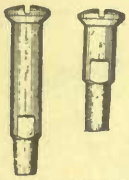


No. **132**
Double Butted.



No. **135**
Plain Even Gauge.

		Per 1000	Per 100
No. 132a.	Excelsior, double butted, bent, headed, nickel-plated and threaded, with nickel-plated nipples, 14-16 gauge	$13 50	$1 40
" 132b.	Best Excelsior, double butted, bent, headed, nickel-plated and threaded, with nickel plated nipples, 14-16, 15-17 or 16-18 gauge	16 00	1 80
" 132c.	Best Excelsior, double butted, bent, headed, double nickel-plated, 12-14, 13-15, 14-16 or 15-17 gauge.	12 00	1 40
" 135a.	Bent, headed, nickel-plated and threaded, 14 gauge, with nickel-plated nipples	9 20	1 00
" 135b.	Bent, headed and nickel-plated, 13, 14, 15, 16, 17 gauge	5 00	0 60
" 135c.	Best Excelsior Sulky, bent, headed, nickel-plated and threaded, with extra heavy nickel-plated nipples		1 75



Nos. **126, 127**

NIPPLES

	Per 1000	Per 100
Threaded, Nos. $13^{5/6}$, $14^{6/6}$, $15^{5/6}$, $16^{5/6}$, $17^{5/6}$, plated	$3 20	$0 40
Sulky, 12 gauge, heavy		0 70

Smaller Iron Ready for Ename

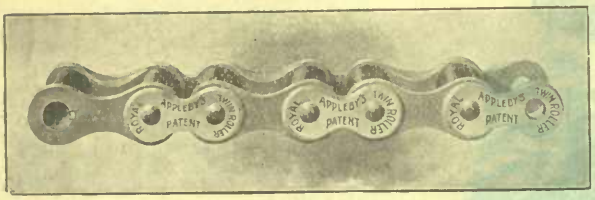
No. **129**

Per 1000	Per 100
40c.	10c.

No. **130**

Per 1000	Per 100
40c.	10c.

APPLEBY'S "ROYAL TWIN" ROLLER CHAINS



TOP VIEW.

The side plates are prevented from catching upon the apex of the tooth of the wheel, which occurs with the ordinary form of Twin-Roller Chain when run too slack.

In addition to the above improvements the chains are fitted throughout with our celebrated patent, immovable, pen-steel bushes, which effectively prevent rotation of the rivets, thereby reducing elongation to a minimum.

No. 200. Sizes, $\frac{3}{16}$ and $\frac{1}{4}$ in., 57 in. long.....each, $2 25

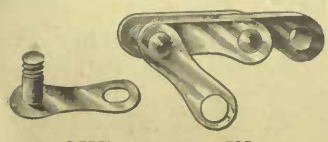
INDIANAPOLIS CHAINS

No. 202.	$\frac{3}{16}$ in., with straw tempered B blocks, hard rivets, top polished blued B sides, 57 in. long	each,	$1 00
" 203.	$\frac{1}{4}$ " " " " " " " " 57 "	"	1 20
" 204.	$\frac{3}{16}$ in., with straw tempered polished B blocks, hard rivets, all polished blued B sides, perforated and champerd, 57 in. long	"	1 30
" 212.	$\frac{3}{16}$ in., with straw tempered polished B blocks, hard rivets, all polished blued B sides, perforated and champered. 57 in. long, silver steel	"	1 40
" 213.	$\frac{1}{8}$ in., with straw tempered polished B blocks, hard rivets, all polished blued B sides, perforated and champered, 57 in. long, silver steel	"	2 25

No. 105. $\frac{1}{4}$ in. with bright No. 8 blocks, bright rivets and plain bright No. 8 sides, 57 in. long .....each, 85c.

No. 8 Blocks.	No. B Blocks.	No. 8 Sides.	No. B Sides.	Nos. 8 and B Rivets.	Bolts and Nuts.	Nuts.
$1.00	$1.00	40c.	40c.	30c.	$1.40	70c. per 100
.20	.20	10c.	10c.	10c.	.25	10c. per doz.

BALDWIN CHAIN-BOLT



OUT IN

Baldwin Chain-Bolt removes the only point at which a screw driver is necessary on a bicycle. It is easily turned round with the finger, and is secured by being snapped over the head of the other rivet.

Per dozen .....60c.

Patented Link and Lock Bolt.

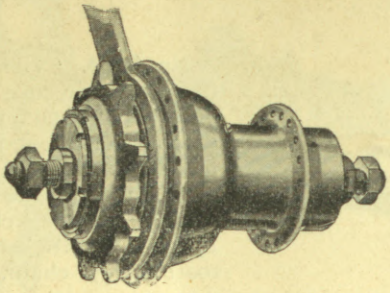
Per doz.... .....75c.
Each .... 8c.

Screws for same and No. 202-204 Chains.

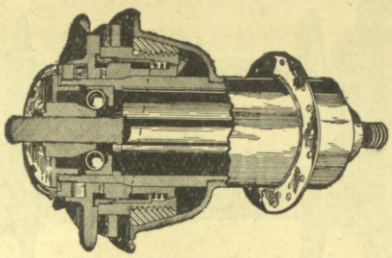
Per 100 ....75c.
Per doz. .....20c.

HUBS

MORROW COASTER AND BRAKE



Outside View.

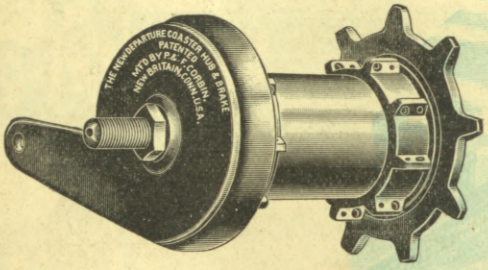


Interior View.

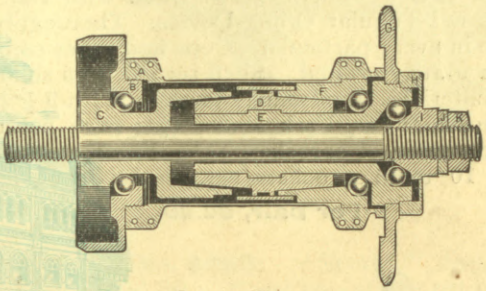
This Coaster and Brake is inside Hub, machine can be run back or forward when rider is off wheel, only light pressure is required to put on Brake, and no continuous strain after applied. Perfect control of wheel at all times.

Hub complete, 8 or 9 tooth sprocket with set spokes .... Each $9.00

NEW DEPARTURE AUTOMATIC COASTER AND BRAKE



Outside View.



Interior View.

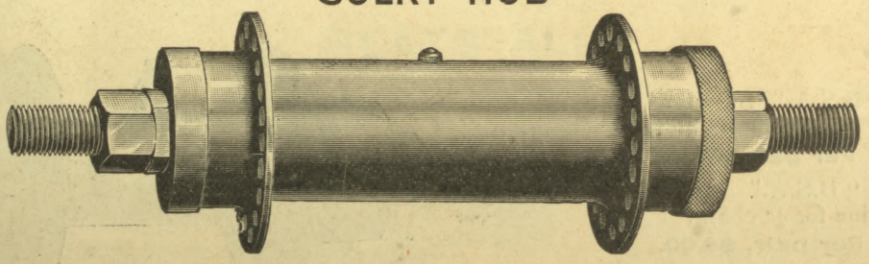
With this Coaster and Brake the rider has Perfect control of the wheel at all times—Consequent freedom from accidents—One third less pedaling—A tight pedal and a free wheel—No strain on himself or machine when braking—Sprocket, chain, and pedals at rest when coasting—No danger of losing pedals—Instant response in time of need—No trundling of wheel down any hill a horse can descend—Feet on the pedals at all times—No back-lash or lost motion.

ITS OPERATION

The driver E carries the cone D. When the rider pedals ahead, the rear sprocket G turns the driver E, which, by means of a thread, forces the cone D into contact with the driving clutch F, which forms a part of the hub, and the wheel rotates. The connection is instantaneous and positive. In coasting the rider simply holds his feet still upon the pedals, and the cone D moves back along the driver to the center, when the wheel revolves freely, the driving mechanism being released. A slight backward pressure drives the cone into the braking clutch C, which is fastened to the frame by the arm shown in figure 1, and the friction of the cone in the clutch retards or stops the wheel as the rider desires, and with a very slight pressure.

Hub complete, all sizes of Sprocket, with set Spokes ..... Each $9.00

SULKY HUB



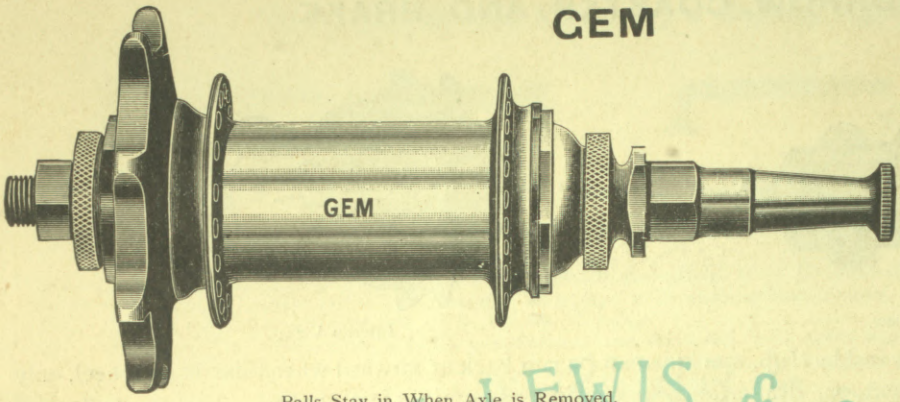
No. **1003.**

Made from solid bar, cups and cones turned from best cast steel, and accurately ground. Latest improved pattern. Flanges over Bearings. Per pair, $4.00.

RICE LEWIS & SON LIMITED

HUBS

GEM



No. **999**. "Gem," turned from solid bar, cups and cones dust proof and made from special cone steel, fitted with ball retainer, has a reservoir of oil, in which the balls constantly revolve, chain line $1\frac{1}{2}$" or $1\frac{5}{8}$", sprockets 7 to 12 tooth for $\frac{3}{16}$" chain.

Per pair, $3.00.

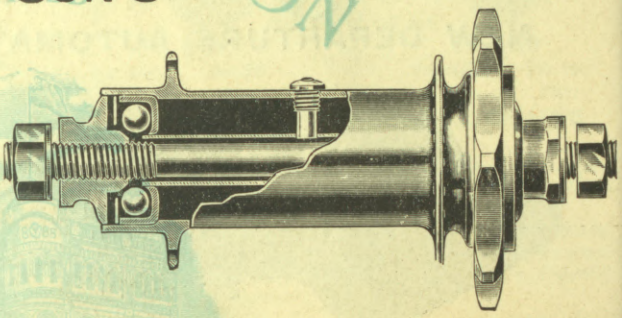
Balls Stay in When Axle is Removed.

RICE LEWIS & SON

THOMPSON'S

No. **L-6**. "Thompson's" fitted with Ball Retainers and Tubular Oiling Device. Thoroughly up-to-date in every particular. Cups and cones carefully and accurately ground. Shell turned from solid bar. Best material. Handsomely plated. With 9 $\frac{1}{4}$" balls. Distance between Fork Ends, $4\frac{5}{8}$"; from centre of hub to centre of sprocket, $1\frac{5}{8}$". Fitted with 7, 8, 9 and 10 tooth sprockets, suitable for $\frac{3}{16}$" chain.

Per pair, $2.00.



LEADER

No. **998**. "Leader" made from bar steel, cups and cones turned from special cone steel, accurately ground, chain line $1\frac{1}{2}$" or $1\frac{5}{8}$", sprockets 7 to 12 tooth for $\frac{3}{16}$" chain.

Per pair, $2.25.

Balls Stay in When Axle is Removed.

TORONTO, ONT.

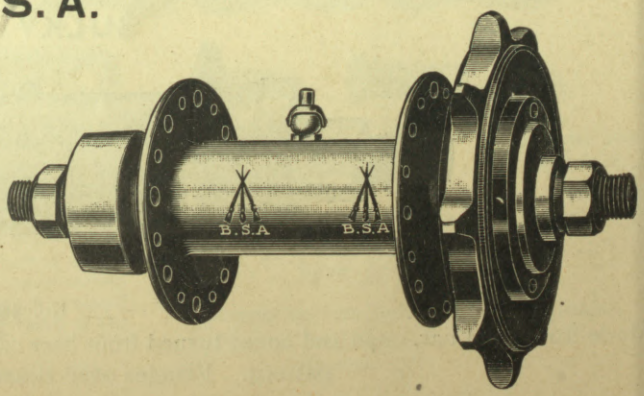
B. S. A.

No. **99**. "B.S.A." Standard Pattern, road or race hubs, $1\frac{5}{8}$" or $1\frac{1}{2}$" chain line for $\frac{1}{4}$" chain.

Per pair, $4.00.

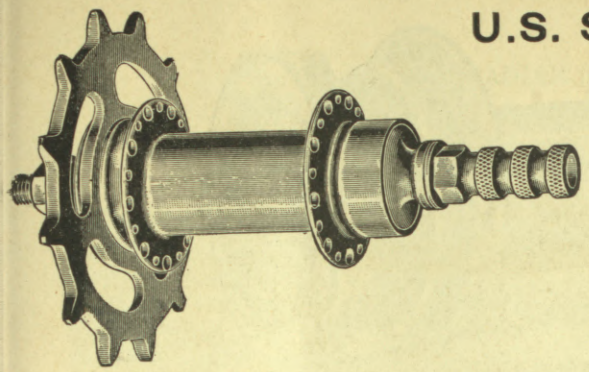
No. **100**. "B.S.A." Barrel Pattern, road hubs, $1\frac{5}{8}$" chain line for $\frac{1}{4}$" chain.

Per pair, $6.00.



HUBS

U.S. SPECIAL



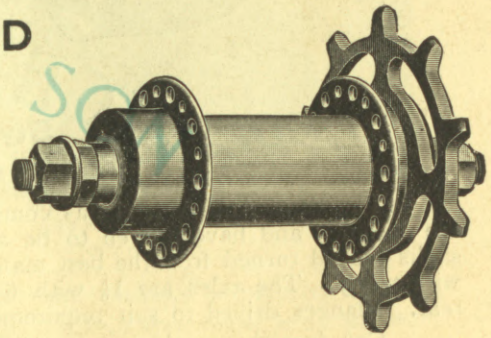
No. **996**. "U.S. Standard" turned from bar, cups and cones turned, hardened and ground, dust proof bearings, finest grade nickel-plating, sprockets 7 to 12 tooth for $\frac{3}{16}$" chain.

Per per, $2.20.

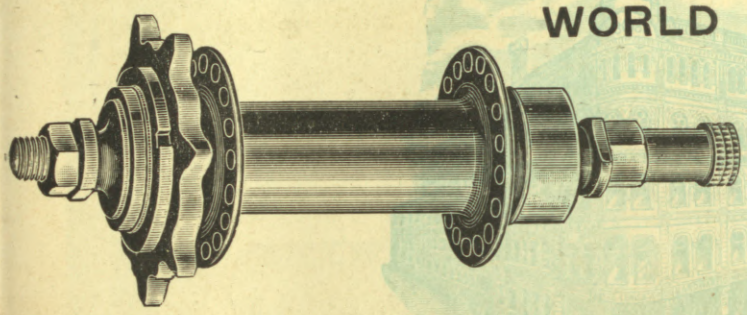
U.S. STANDARD

No. **997**. "U.S. Special," steel shell, pressed cups, cones turned, dust proof bearing, sprockets 7 to 12 tooth for $\frac{3}{16}$" chain.

Per pair, $1.75.



WORLD



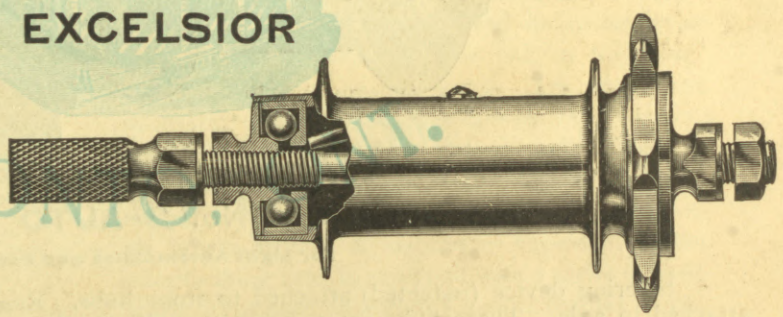
No. **1002**. "World," made from solid bar. Good hub at low price.

Per pair, $2.00.

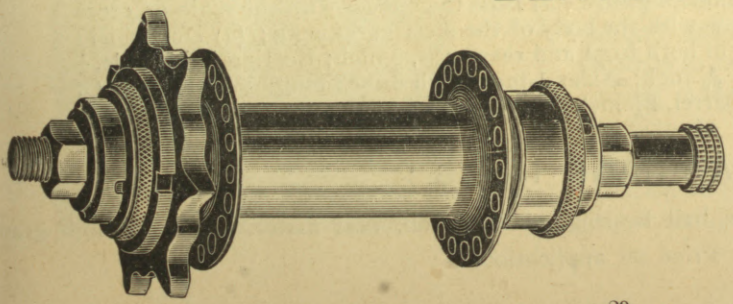
EXCELSIOR

No. **1001**. "Excelsior," made from solid bar, cups and cones turned from best cast steel and accurately ground, chain line $1\frac{5}{8}$", sprockets 7, 8, 9 or 10 tooth for $\frac{3}{16}$" chain.

Per pair, $2.35.



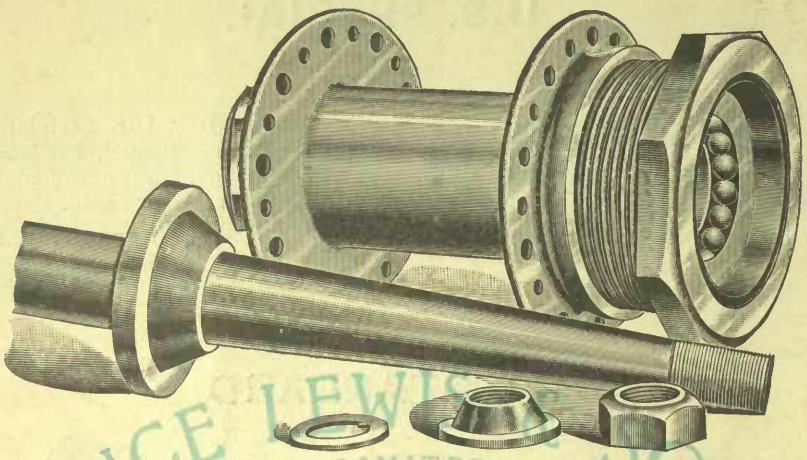
BEATS ALL



No. **1000**. "Beats All," made from solid bar, cups and cones turned from best Cast Steel and accurately ground, new device for oiling hubs at both ends, chain line $1\frac{1}{2}$" or $1\frac{5}{8}$", sprockets 7, 8, 9 or 10 tooth for $\frac{3}{16}$" chain.

Per pair, $2.65.

AUTOMOBILE HUBS

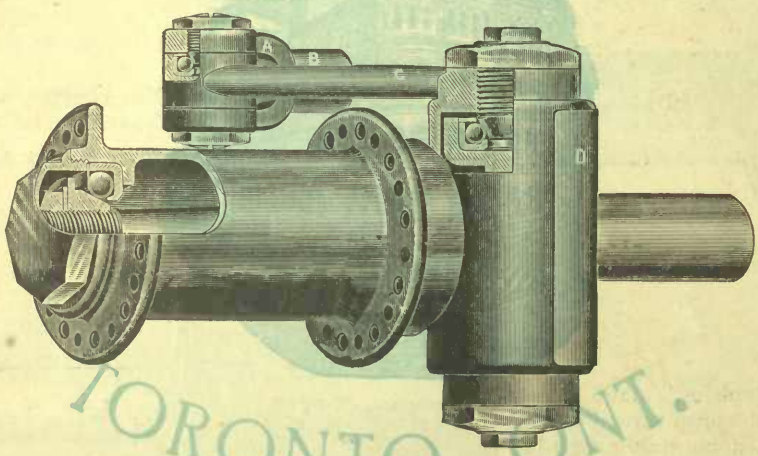


Style No. 1—AUTO HUBS

Designed for Phaetons or Light Delivery Wagons

The Wire Auto Wheel has come to stay, owing to the many advantages offered. Our Auto Hub are designed and have proven to be as easy running as any bicycle hub. The cups, cones, axles an shells are all turned from the best material obtainable. These hubs will carry a gross weight of 5,000 lbs with safety. The axles are $1\frac{3}{8}$ with 6-inch stub. Distance between flanges 4 inches for both front an rear. Flanges drilled to suit requirements. We furnish hubs, less sprockets.

Can furnish sprockets extra if desired, cast of crucible steel.



Style No. 2—AUTO HUBS

For Light Automobiles and Runabouts

Steering device (patented) attached to front hubs. Rear hubs in either ball bearing or stationar attached to axle. These hubs are somewhat smaller in diameter than our No. 1 Hub.

DESCRIPTION—(*a*) Connecting link; (*b*) Boss to connect with the main or cross rod; (*c*) Steering lever, in one piece with the body of the steering knuckle; (*d*) Dust shield for the steering knuckle; Bearing in both front and rear hubs, $\frac{3}{8}$ inch; Bearing in knuckle, $\frac{1}{4}$ inch; Bearing in connecting link, $\frac{3}{16}$ inch; Axles 1-inch, with 6-inch stub; Width C to C, flanges 4 inches; Diameter of barrel, $2\frac{1}{4}$ inches; Diameter of flanges, $3\frac{3}{8}$ inches.

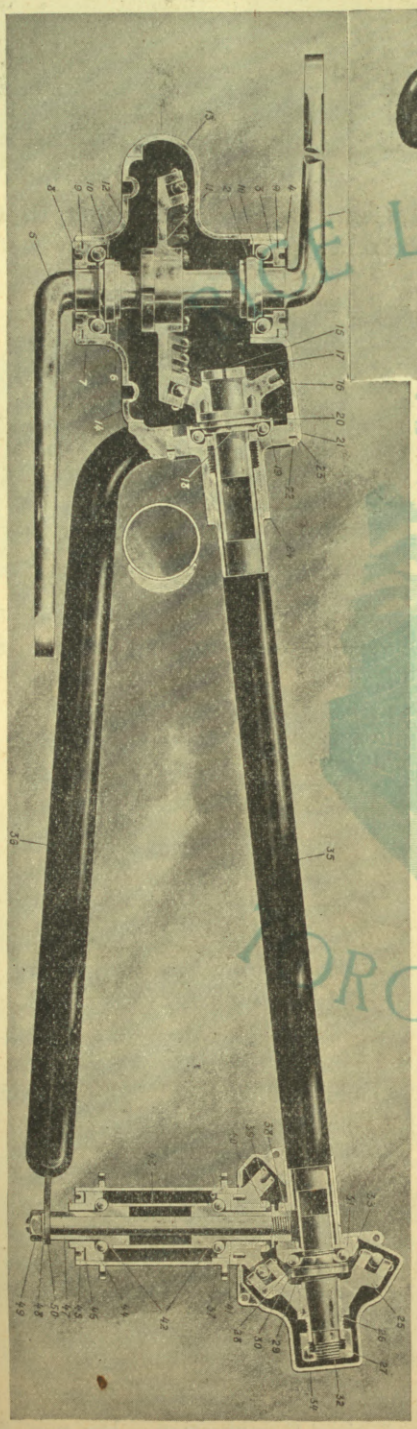
CARRIAGE HUBS

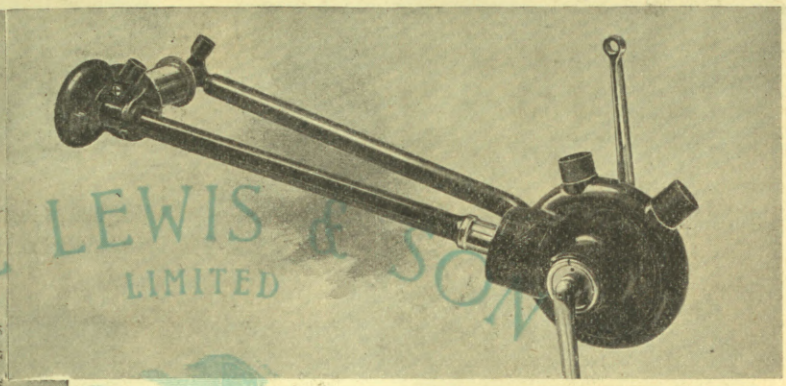
Same diameter shell as No. 2 Auto Hub, ball bearing, axles 1-inch, best material, strictly high grad

Price on application.

BULLIS BALL GEAR

CANADIAN SELLING AGENTS





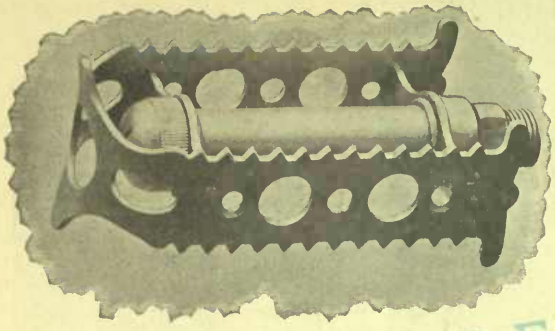
Gear complete with fittings as above, nickel-plated hub, cranks, cups, cones, etc...$40.00

Set of fitting to make complete frame with gear, N.P. hubs and cranks... Per set $45.00

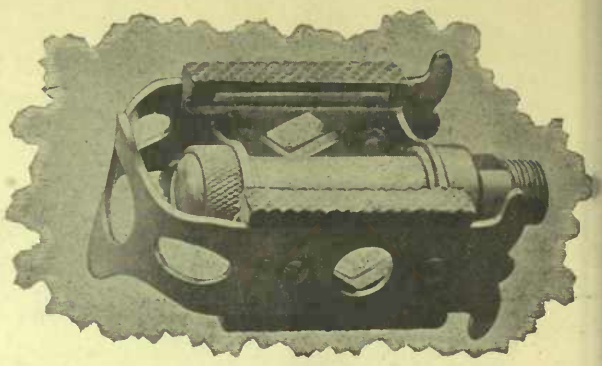
This gear resembles the bevel gear in appearance, inasmuch as one of each intermeshing pair of gears is supplied with a fixed involute tooth, which differs largely from the bevel gear, from the fact that it has been so designed as to secure a rolling line of contact with the ball in the intermeshing gear its entire length. The teeth are accurately generated and are theoretically correct, being carefully hardened and ground. There is absolutely no lost motion, no grinding or jumping in operation. The machine's instant response to all power applied is manifestly apparent. The intermeshing gear is equipped with a series of balls which have been substituted for the regular tooth, mounted upon hardened and ground pins, and revolve upon their axes, which are properly supported at both ends. We have designed a set of necessary fittings to be used in connection with this gear, which make it absolutely dust-proof. (See cut as above). We have machines in use that have been ridden thousands of miles and aside from the bearing surfaces of the teeth being highly polished show no signs of wear.

LEWIS & SON LIMITED TORONTO ONT.

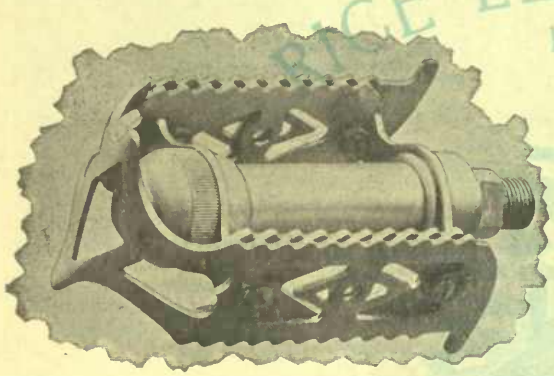
DIAMOND PEDALS



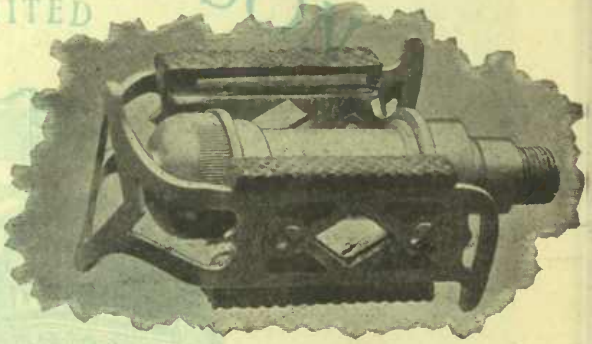
No. 220, Gents' Rat Trap. Per pair, $1.00



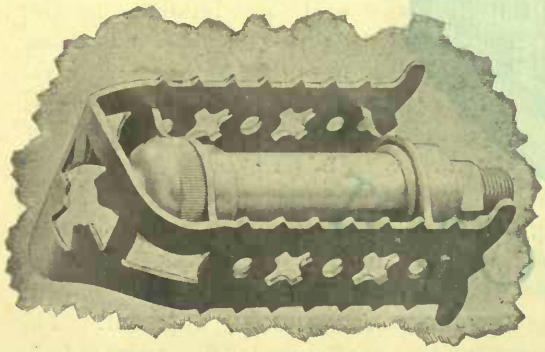
No. 221, Gents' Combination. Per pair, $1.30
No. 222, Ladies' " " 1.30



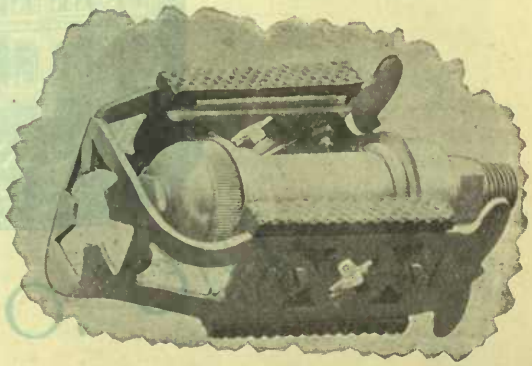
No. 214, Gents' Race. Per pair, $1.80
No. 212, " Double Plate. " 2.00



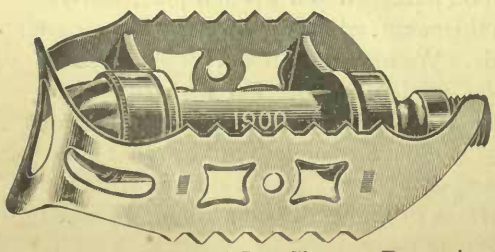
No. 210, Gents' Combination. Per pair, $2.00
No. 206, Ladies' " " 2.00



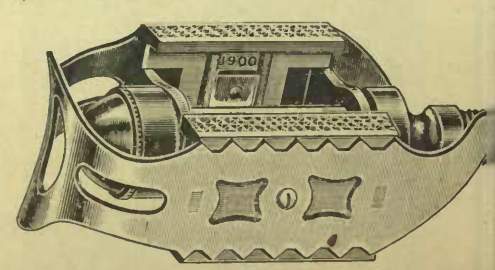
No. 208, Gents' Rat Trap. Per pair, $1.80



No. 216, Gents' Combination. Per pair, $2.00
No. 218, Ladies' " " 2.00



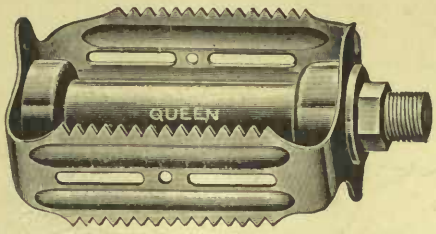
NIAGARA 1900 PATTERN PEDALS



No. 223, Gents' Rat Trap. Per pair, $0.90
No. 224, " Combination. " 1.10

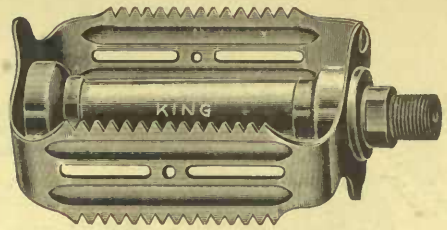
No. 225. Ladies' Combination. Per pair, $1.10

PEDALS



Queen—Gents' Rat-trap, wide continuous Band Frame, large Barrel, dust-proof Bearing with 10 $\frac{3}{16}$" Balls in each end, easily adjusted .....Per pair $1.60

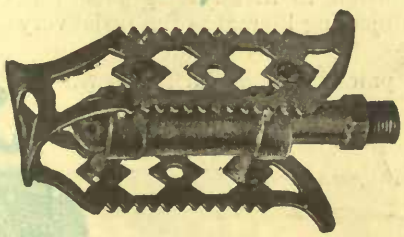
Queen—Gents' Combination, with Interchangeable Rubber.....Per pair 1.85



King—Gents' Rat-trap, same construction as Queen, only narrower Frame Band, Smaller Barrel, and 15 $\frac{1}{8}$" Balls...Per pair $1.50

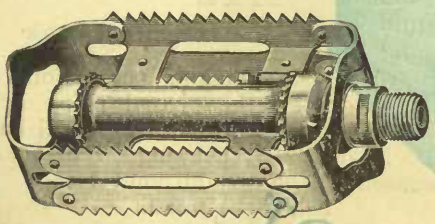
King—Gents' Combination, with Interchangeable Rubber .....Per pair 1.75

King—Ladies' Combination, with Interchangeable Rubber .....Per pair $1.75

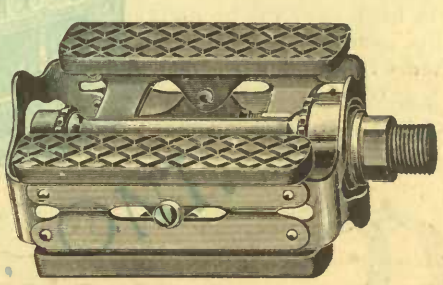


Century—Gents' Extra Heavy Side Plates, Rat Trap .....Per pair $1.10

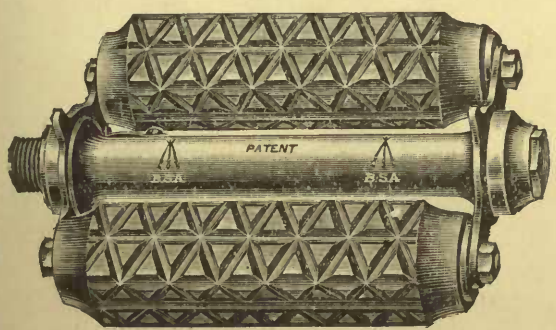
Century—Gents' Extra Heavy Side Plates, Combination .....Per pair 1.35



Banner—Gents' Rat-trap .....Per pair $1.10
" " Combination ..... " 1.35

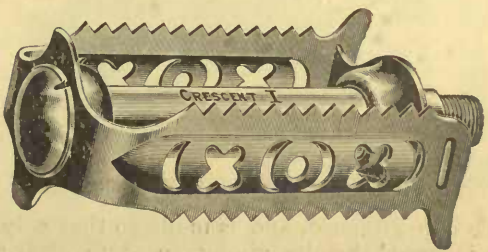


Banner—Ladies' Combination .....Per pair 1.35



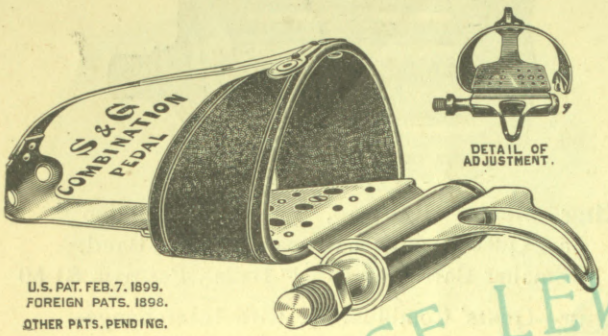
No. **108**

B.S.A.—Ladies' or Gents' Rubber ...Per pair $4.00
Pattern, Gents' Rat-trap..... " 1.00



Crescent—Gents' Rat-trap, End Bearing design, $\frac{3}{16}$" Balls .....Per pair $1.00
With Universal Rubber..... " 1.35

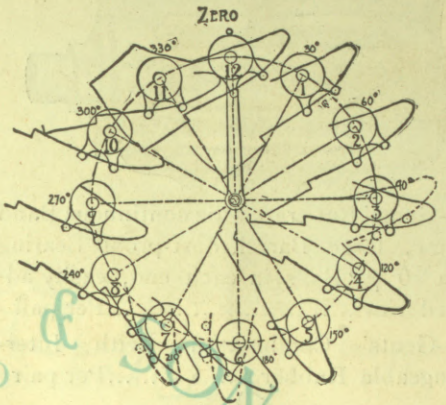
PEDALS



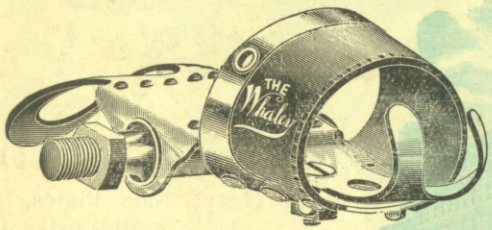
S and G Combined Pedal and Toe Clip.

Has full, flat bearing for the foot, the leather top can be adjusted to fit any size shoe, the rear projecting lip makes the pedal very easy to catch.

Per pair $2.50



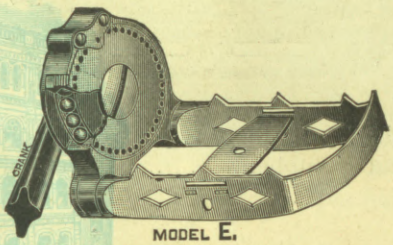
Clock Diagram, showing under swing, with perfect ankle motion obtained by use of Ramsey Swinging Pedals.



Whaley Adjustable Stirrup Pedal

Pedal and base of clip in one piece; the leather top, which is held in shape by metal spring on face of clip, is adjustable to fit any size shoe; fitted with tripper, which enables pedal to be caught instantly.

Per pair $2.50

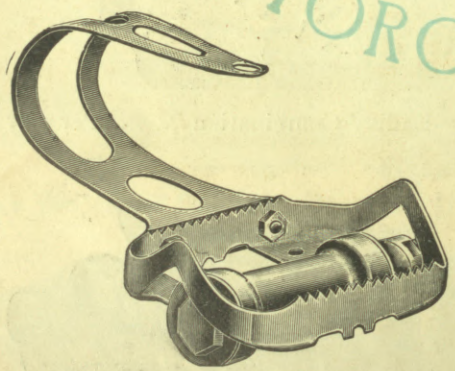


No. E Ramsey Swinging Pedal

Has a forward or under swing (as per motion above). This is caused by the pivotal point being above the tread. The ordinary pedal has a backward or over swing. This is caused by the pivotal point being below the tread.

Per pair $4.50

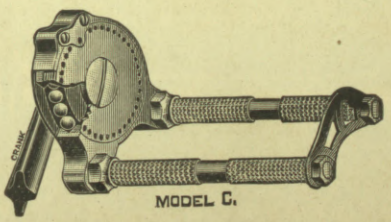
Toe Clips for same, per pair 0.50



The "Professional" Pedal

Has toe clip attached, and is made so that only one side is used, thereby giving an extra clearing above the ground of nearly one inch more than ordinary pedals.

Per pair $1.75



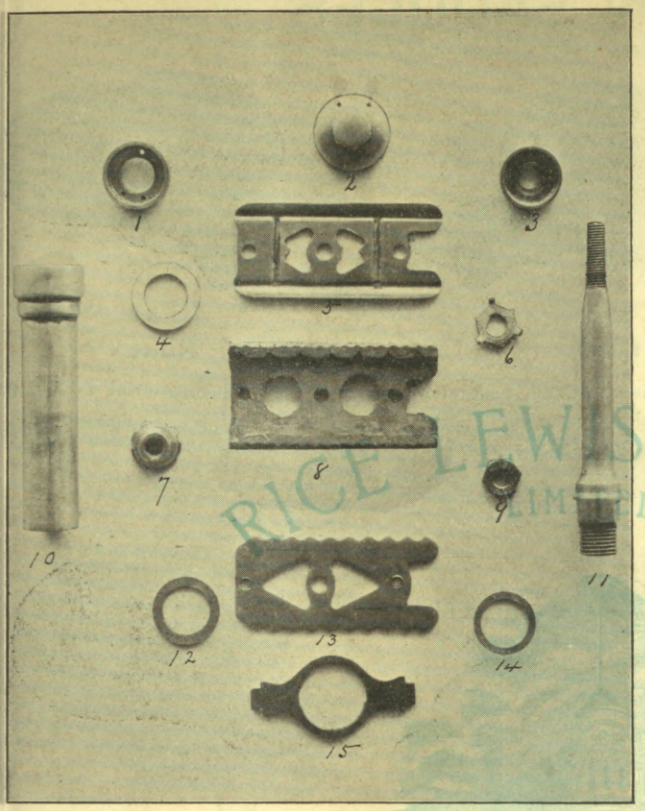
No. C Ramsey Swinging Pedal

Description as above, with round knurled bars.

Per pair $4.50

Toe Clips for same, per pair 0.50

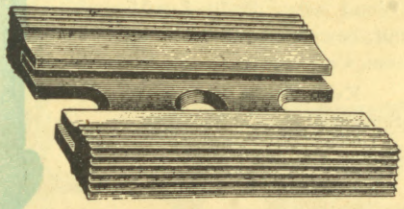
RICE LEWIS & SON LIMITED TORONTO, ONT.



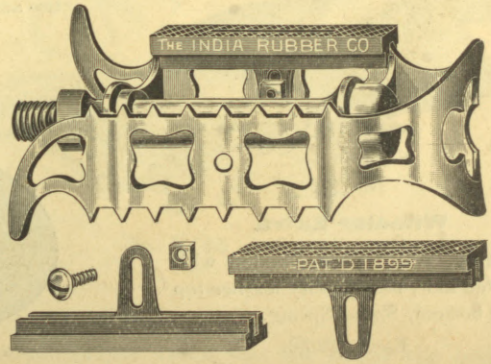
Pedal Parts

No. 1.	Large cup	each,	$0 12
" 2.	Dust cap	"	18
" 3.	Small cup	"	8
" 4.	Centre washer, leather	per doz.	24
" 5.	Inside plate	each,	7
" 6.	Lock washer for cone	per doz.	44
" 7.	Cone	each,	14
" 8.	Rubbers	per set,	30
" 9.	Axle washers	per doz.	20
" 10.	Barrel and cross-bar	each,	42
" 11.	Axle	"	40
" 12.	Outside dust washers	"	9
" 13.	Steel side plates	"	7
" 14.	Inside dust washers	"	9
" 15.	Front Stretcher	"	17
" 16.	Frames	"	43
" 17.	Small bolts for rubber	per doz.	14
" 18.	Small bolt for nuts	"	10
" 19.	Large check nuts	each,	9

No. 20. Interchangeable Rubber Combination, to fit "King" and "Queen" pedals.
Sizes for ladies' and gents' pedals, per set. $0 25

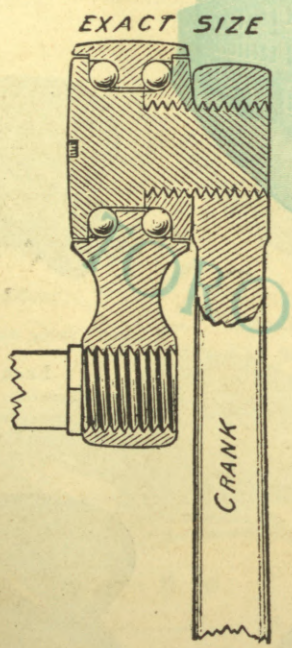


No. 21. Universal Combination Rubbers. Snaps on; no bolts or screws; will fit almost any pedal.
Sizes for ladies' and gents' pedals, per set, $0 25



No. 22. "India" Combination Rubbers, 8 pieces to set, with N.P. bolts.
Per set, $0.25.

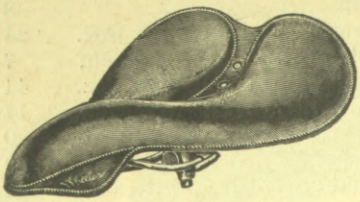
Jointed Attachment for Cranks



The best and most useful invention on bicycles ever ade. Fits any bicycle. Weighs only 8 ounces. Far etter than any swinging pedal. Much lighter. Do not ok clumsy. Less cost. Strong, durable, well nickeled.
Price.....per pair, $1 20

RICE LEWIS & SON LIMITED TORONTO, ONT.

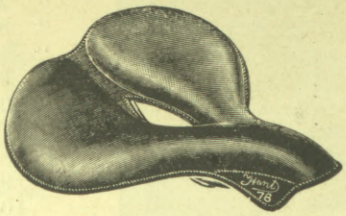
AMERICAN SADDLES



No. **56**

Wheeler Special

Gents' Roadster, Wood base, Padded. Each, $2.00.



No. **76**

Hunt

Gents', Wood base, Padded, best quality Leather top and bottom. Coil Spring.

Each, $1.60.

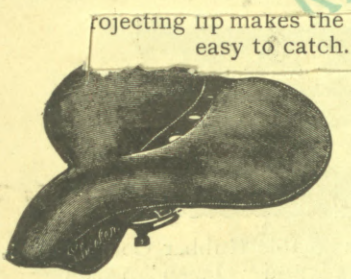
No. **77**

Hunt

Ladies', same material as No. 76.

Each, $1.60.

RICE LEWIS & SON LIMITED



rojecting up makes the pedal v easy to catch.

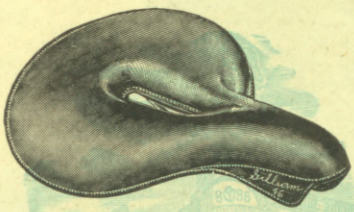
No. **86**

Wheeler Extra

Gents', Wood base, Padded with curled hair, best quality Leather top and bottom, Coil Spring.

Each, $2.30.

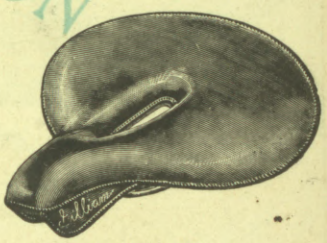
With Spiral Spring, each, $2.50.



No. **46**

Gents', Metal base, Padded, selected Leather top and bottom. Coil Spring.

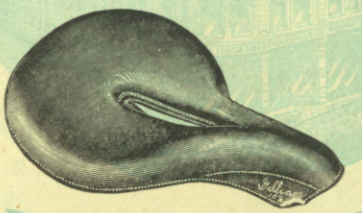
Each, $1.20.



No. **47**

Ladies', same material as No. 46.

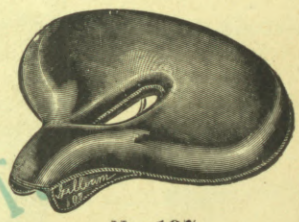
Each, $1.20.



No. **108**

Gents', Metal base, Padded, good Leather top and bottom. Truss Spring.

Each, $1.00.

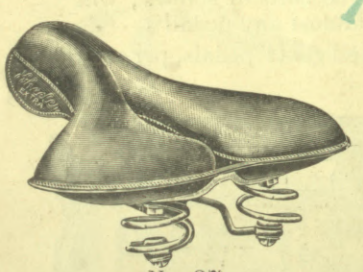


No. **107**

Ladies', same material as No. 108.

Each, $1.00.

TORONTO, ONT.

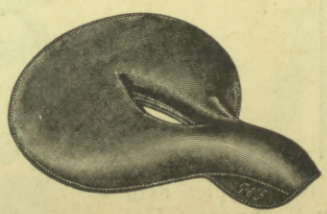


No. **87**

Wheeler Extra

Ladies', Wood base, Padded with curled hair, best quality leather top and bottom, Spiral Spring.

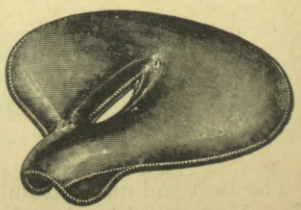
Each, $2.50.



No. **98**

Gents', Metal base, Padded, Truss Spring

Each, 80c.

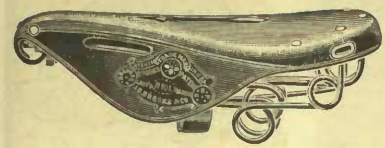


No. **97**

Ladies', same material as No. 98.

Each, 80c.

BROOKS' SADDLES



No. **B 10 L**

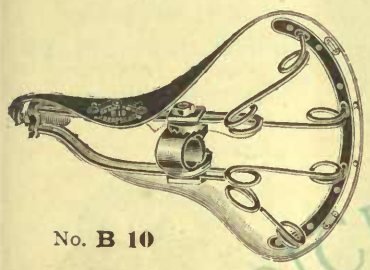
Ladies'..... .....each, $2.80

No. **B 17**

Track Racing.....each, $2.40

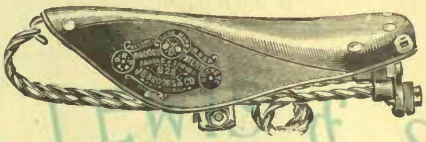
No. **B 24 L**

Ladies'.....each, $2.40



No. **B 10**

Road Racing..... ..each, $2.80

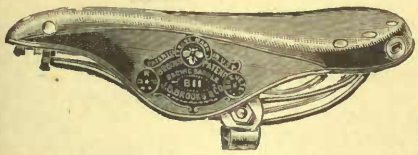


No. **B 28**

Gents' Roadster.....each, $3.25

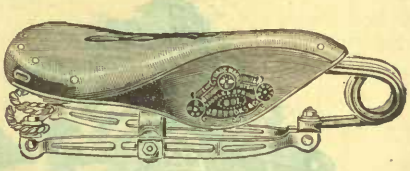
No. **B 28 L**

Ladies'.....each, $3.25



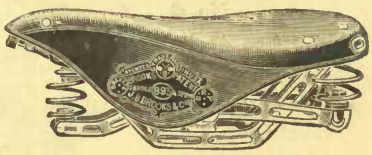
No. **B 11**

Track Racing.....each, $2.80



No. **B 91**

Hammock Roadster, each, $4.25

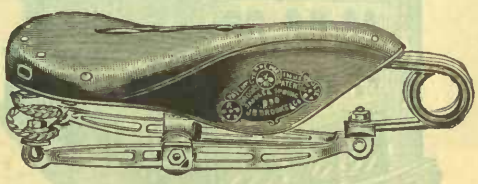


No. **B 93**

Ladies' or Gents, patent double action spring, each, $4.00

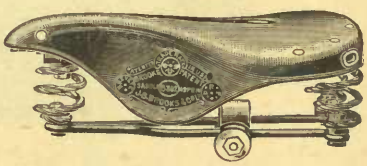
No. **B 24-1**

Light Roadster...each, $2.40



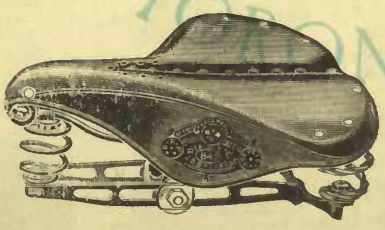
No. **B 90**

Hammock Roadster.....each, $5.00



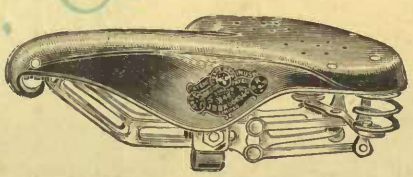
No. **B 302 L**

Ladies', with 3 coil springs, each, $2.80



No. **B 40**

Each..... $5.00



No. **B 45**

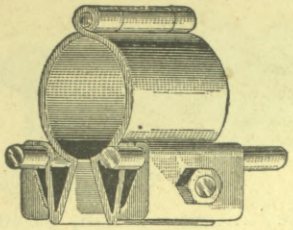
Each $5.00

Nos. B 40 and B 45 are broad saddles with patent tensioned leather under-seat by which the body is supported and the peak left soft and unrestrained.

Springs for Brooks' Saddles, each, $1.00; Spiral Springs for Brooks' Saddles, each, 40c.

RICE LEWIS & SON LIMITED TORONTO, ONT.

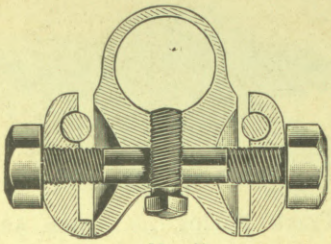
SADDLE CLAMPS



No. **9**

Saddle Frame Clamp

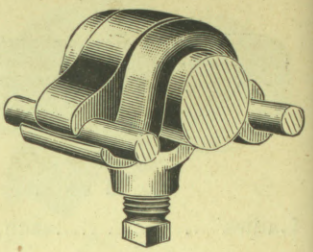
Each, 50c.



No. **5**

For Upright T or L Posts, all wire springs.

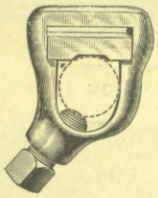
Per doz., $4.00; Each, 40c.



No. **7**

Per doz..... $2.50

Each ..... .25

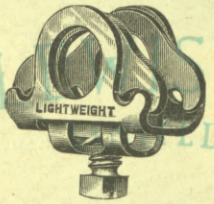


No. **6**

For $\frac{7}{8}$ Flat Spring and $\frac{5}{8}$ Seat Post.

Per doz..... $1.65

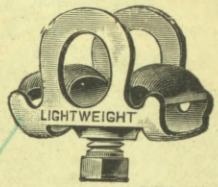
Each ..... .20



No. **1**

Per doz. $1.60

Each ..... .20

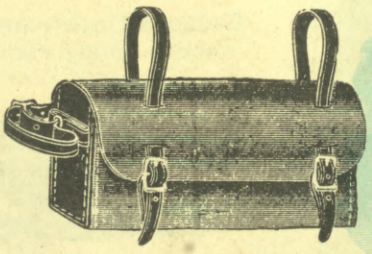


No. **3**

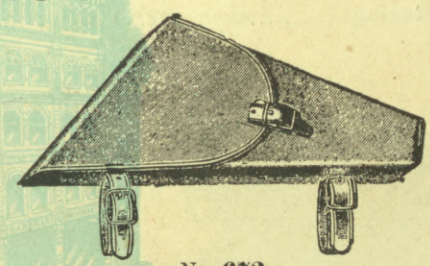
Per doz. $1.35

Each ..... .15

TOOL BAGS



No. **572**



No. **672**

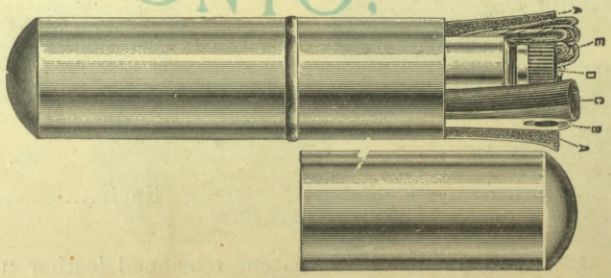
No. 572, size 1.	Gents', square top, bevel riveted end, with patented clasp, per dozen	.....	$4.00
" 572, " 2.	" " " " sewed " round bottom, with patented clasp, per doz...		6.00
" 672, " 4.	Ladies' Triangular, sewed, with patented clasp, per doz.	.....	4.50
" 672, " 6.	" " " " " " extra quality, per doz	.....	6.25

REPAIR KITS

No. **218**

Dunlop Repair Kit.

Per doz., $1.35.



No. **217**

Midget. Per doz.,$1.35.

No. **216**

Morgan & Wright single or double tube tire, quick repair outfit

Each, 10c.

RICE LEWIS & SON LTD TORONTO, ONT.

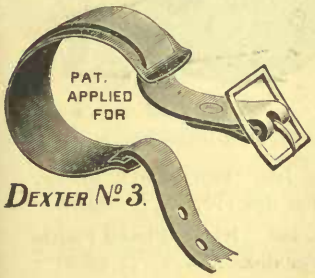
PARCEL AND BUNDLE CARRIERS

PARCEL CARRIERS

The elastic band forms a retracting spring and closes the mouth of the carrier, firmly gripping any article extending above, and adjusts itself to the numerous packages you can put in it. This carrier is made of black cotton netting.

No. 1, per doz. $6.00
" each ..... .60

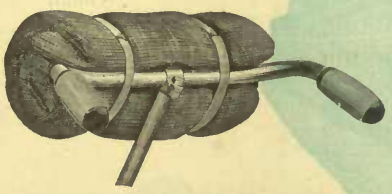
POCKET CARRIERS



No. 3 clamps around the handle bars and holds the strap in place. Can be used on almost any part of bicycle. Springs are adjustable.

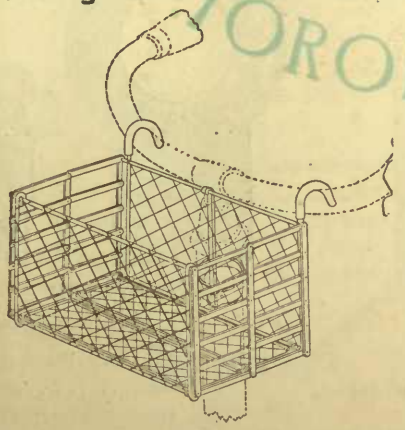
No. 3, per doz. pair, $3.60
" per pair .... .35

ELASTIC CARRIERS



No. 162, per doz. pair, $1.25; per pair, 15c.

Folding Wire Parcel Carrier



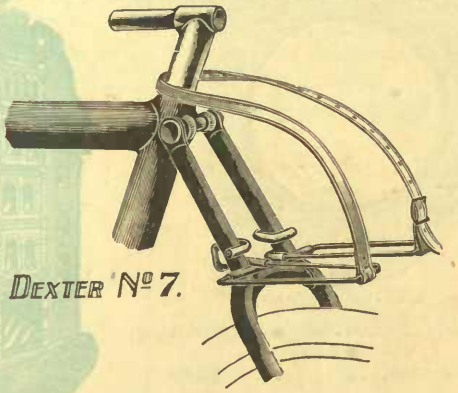
No. 161, Size, 6x6x10"....each, $1.33
" 160, " 6x8x14".... " 1.65

SCHOOL BAG CARRIER

This carrier is supplied with our spring clamp, same as on our No. 3 Carrier. The clamps prevent the bag from sliding together at the top, or slipping from side to side on bar. Leather straps with nickel-plated trimmings.

	Per doz.	Each.
No. 5. heavy colored duck, size, 9x10x3 in....	$5.00	50c.
" 6, " " " 10x10x3 in....	.5.00	50c.

REAR LUGGAGE CARRIER



This carrier adjusts itself and will fit in rear forks of all bicycles. It is supplied with proper length straps and nickeled buckle. Just the carrier for cameras or any package or coat.

No. 7, heavily nickel-plated, per doz., $4.00; each, 40c.

Canvas Waterproof Luggage Bag

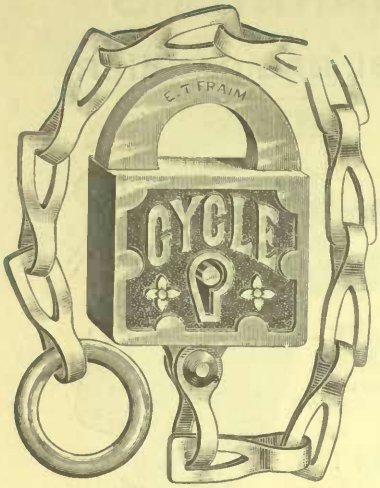
No. 159, Size, 8 x 10". each, $3.00
" 158, " 10 x 14".. " 4.00

"Kozy" Child's Seat

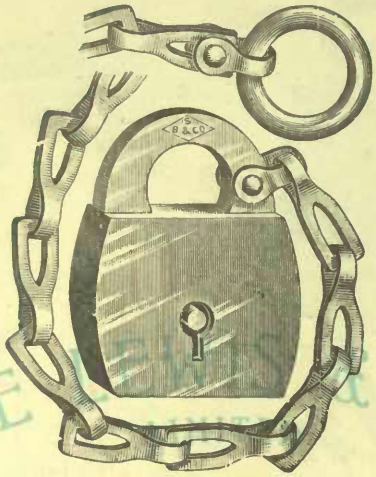
No. 163.
Each, $2.25

RICHARD LEWIS & SON LIMITED TORONTO, ONT.

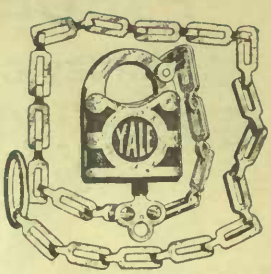
LOCKS



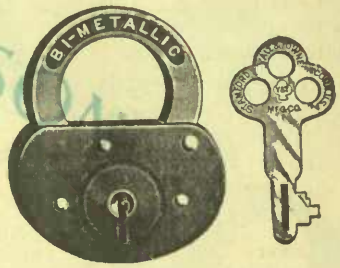
No. **391**
Aluminum Bronze, extra strong spring shackle, self-lockling, 1 key, nickel-plated steel chain, solid steel ring.
Per doz..... $2.25



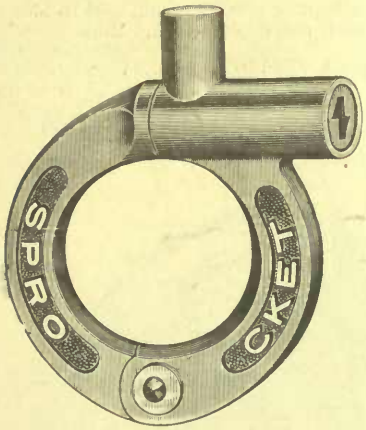
No. **205**
Bronze Metal, self-locking, one key, nickel-plated chain.
Per doz..... ...$2.90



No. **8013 B**
Yale, Bronze Metal, self-locking, two keys, all different, brass chain.
Per doz.....$16.00

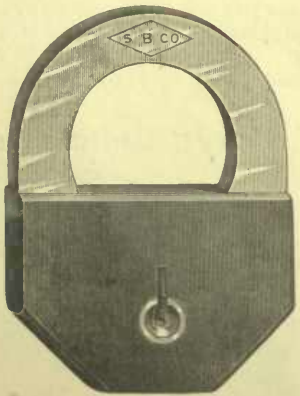


No. **100**
Yale Steel, self-locking, one key.
No. 100. Ivory Black Finish.
Per doz.....$1.75
No. 105. Nickel-Plated Finish.
Per doz.....$2.50
No. 104. Same as No. 100, with chain.
Per doz.....$3.20
No. 106. Same as No. 105, with chain.
Per doz.....$4.00

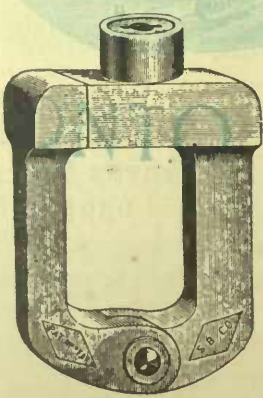


No. **1000**
Bronze Metal, 200 changes, self-locking, one key.
Per doz..... $3.80

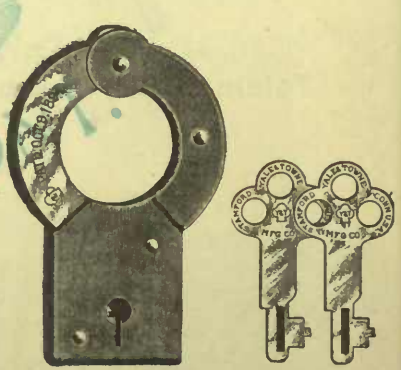
No. **206**
Security Lock, brass, nickel-plated, key fastens in lock when not in use.
Per doz.....$3.20



No. **735**
Pressed Metal, brass interior works, self-locking, one key.
Per doz $1.10

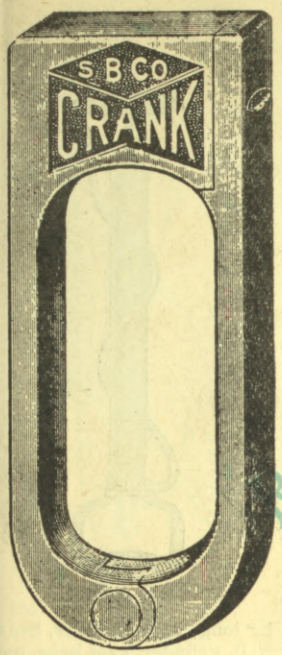


No. **1300**
Bronze Metal, twelve changes, self-locking, one key.
Per doz.....$2.90



No. **102**
Yale Steel, self-locking, two keys,
No. 102. Ivory Black Finish.
Per doz.....$2.60
No. 103. Bronze Finish.
Per doz..... $2.60

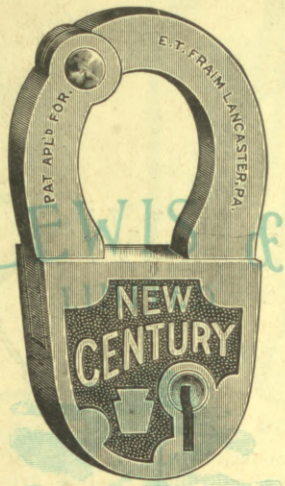
LOCKS



No. **1200**

Bronze metal, plated, 200 changes, self-locking, one key.

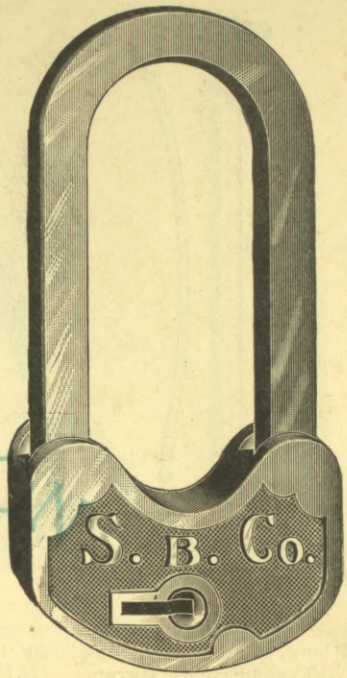
Per dozen, $4.00



No. **37**

Aluminum, spring shackle, self-locking, flat key, all different, weight $\frac{7}{8}$ oz.

Per doz., $3.00

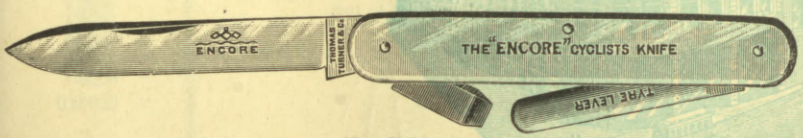


No. **1400**

Acme Crank Lock, bronze metal, self-locking, one key.

Per dozen, $2.80

CYCLIST'S KNIFE

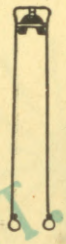


No. **95800**

3½" Aluminum handle, large spear blade, turn screw and tire detacher.

Per doz., $10.00; Each, $1.00

MUD GUARDS

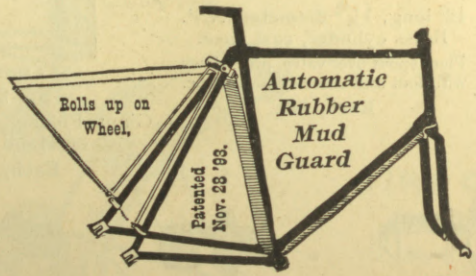


No. **182**

Rubber band mud guard for front and rear wheel.

Per pair, $0.50

MUD GUARDS



No. **187**

Each, $1.00

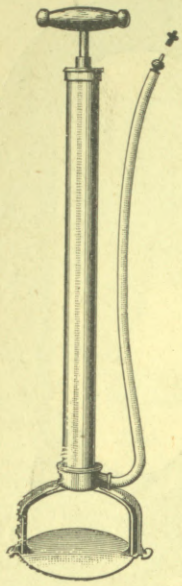
No. **184**

Ladies' Gem Strip

Each, $0.40

RICE LEWIS & SON
TORONTO, ONT.

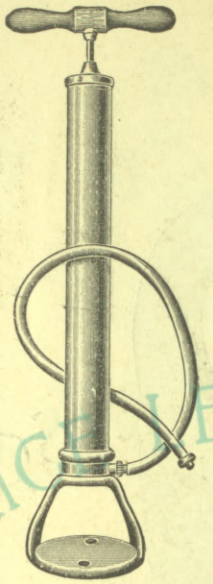
PUMPS



No. **255**

22″ long, 1½″ diameter, Brass N.P. cylinder, cast stirrup.

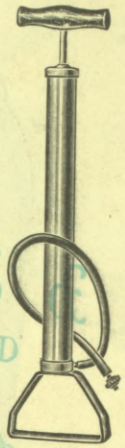
Each, $2.10.



No. **250**

20″ long, 2″ diameter, Brass N.P. cylinder, cast stirrup.

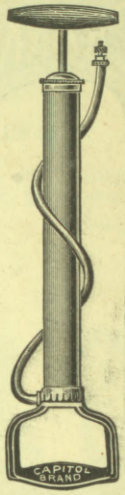
Each, $4.40.



No. **249**

12″ long, 1¼″ diameter, Brass N.P. cylinder, wrought stirrup.

Per doz., $5.20; each, 45c.

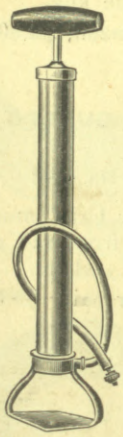


No. **265**

12″ long, 1¼″ diameter, Brass N.P. cylinder, cast base, patented expander plunger.

Per doz., $6.40; each, 55c.

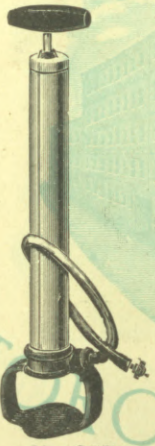
RICE LEWIS & SON LIMITED TORONTO, ONT.



No. **256**

12″ long, 1½″ diameter, drawn steel, N.P. cylinder, cast base

Per doz., $8.40; each, 75c.



No. **257**

12″ long, 1½″ diameter, Brass N.P. cylinder, cast base.

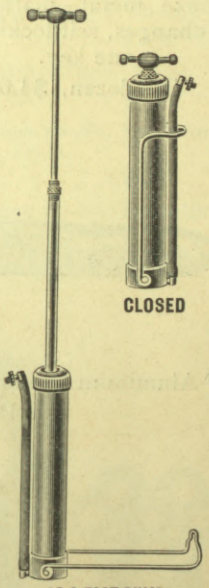
Each, 90c.

No. **264**

12″ long, 1¼″ diameter, N.P. Brass cylinder, cast base.

Place spout over valve, press down with foot and connection is made.

Each, 60c.



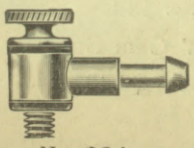
No. **266**

Giant Folding Pocket, Foot or Hand Pump.

Each, 65c.

No. **264**

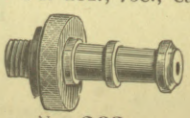
Per doz., 76c.; each, 8c.



No. **264**

Right Angle Pump Connection.

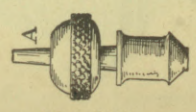
Per doz., 90c.; ea., 10c.



No. **263**

Swivel Nipple A and K combined.

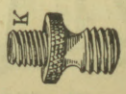
Per doz., 60c.; ea., 8c.



No. **260**

A—Swivel.

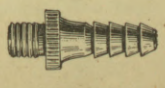
Per doz., 60c.; ea., 10c.



No. **259**

K—Nipple

Per doz., 30c.; ea., 5c.

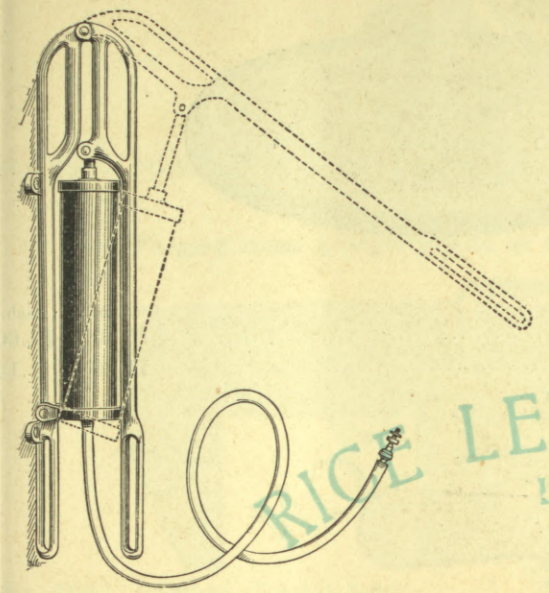


No. **262**

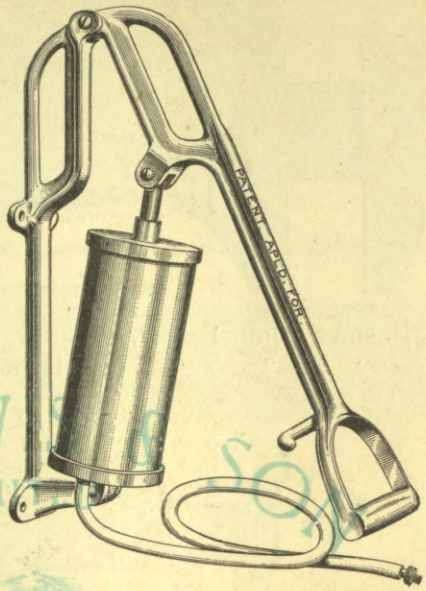
Hand Pump Nipples.

Per doz., 30c.; ea., 5c.

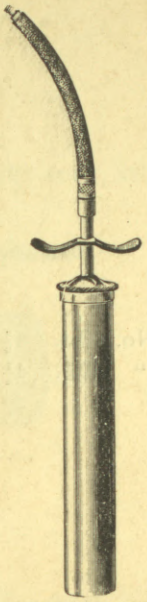
PUMPS



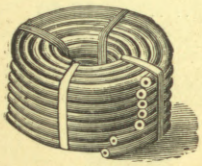
	Cylinder.	Capacity.	
No. 54	10x1½ in.	17 cubic in...	each, $2.40
" 55	8x2 "	25 "	" 4.20



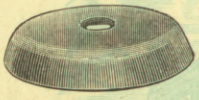
	Cylinder.	Capacity.
No. 56	6¼x3 in.	38 cubic in.
Each		$7.00



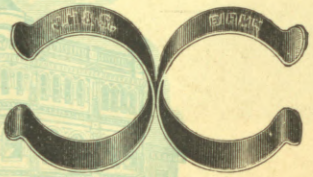
No. 258.
Hand Pump.
Per doz.....$1.65
Each 0.16



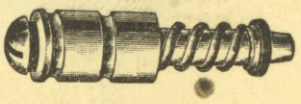
Rubber Pump Tubing.
Per foot.....8c.



Pump Suckers.
Hand pumps, per doz ..12c.
Foot pumps. 1¼ 1½ 2"
Per doz.... 30c. 35c. $1.00



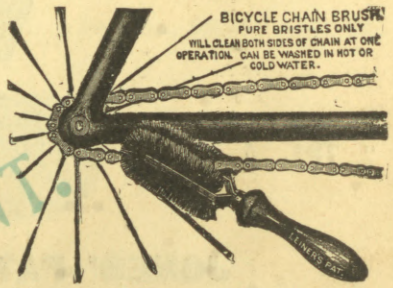
Steel Pump Clips.
Per pair .....10c.



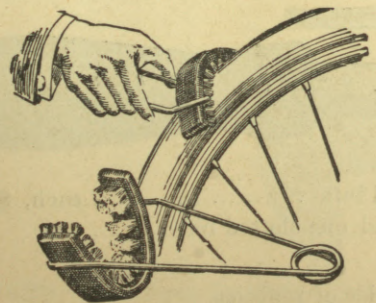
Automatic Cut-off Valve.
Each, 60c.

CHAIN CLEANING BRUSHES

No. 140. Single row .....per doz., $1.35
" 141. Double row... ..... " 2.50

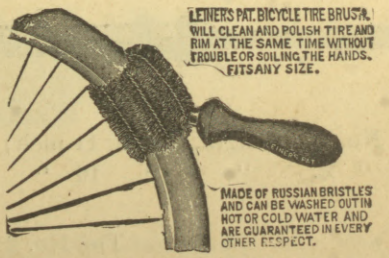


No. 142. Per doz., $2.00; each, 20c.



TIRE CLEANING BRUSHES

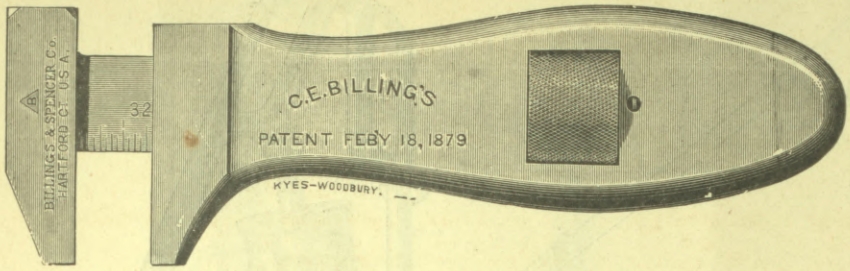
No. 143. Per doz., $3.00; each, 30c.



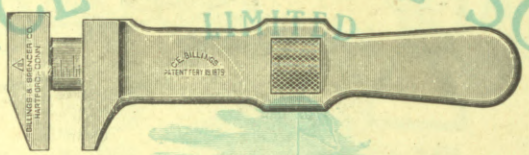
No. 144. Per doz., $4.00; each 40c.

RICE LEWIS & SON LIMITED TORONTO ONT.

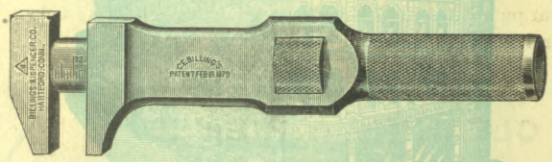
WRENCHES



		Per Doz.	Each.
No. **194**.	4¼-inch, B. and S. Drop Forged, black	$10.10	$1.00
" **491**.	4¼ " " " " nickel-plated	11.25	1.15

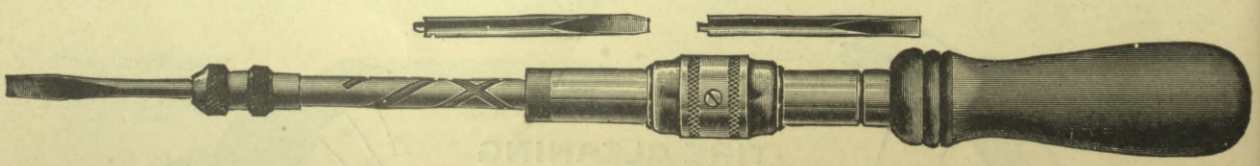


		Per Doz.	Each.
No. **195**.	5-inch, B. and S. Drop Forged, black	$10.10	$1.00
" **196**.	6 " " " " "	13.50	1.35
" **591**.	5 " " " " nickel-plated	11.25	1.15
" **691**.	6 " " " " "	16.80	1.65



		Per Doz.	Each.
No. **197**.	5-inch, B. and S. Drop Forged, black	$10.10	$1.00
" **791**.	5 " " " " nickel-plated	11.25	1.15

JONES' PATENT REVERSIBLE SCREW DRIVER

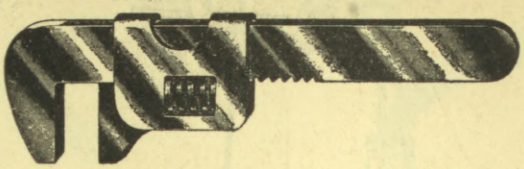


No. **1**. Length, closed, 11-inch; open, 17-inch, with three forged steel bits ..... each, $2.60
" **2**. " " 10 " " 15 " " two plain bits and one slotted bit ..... " 2.30

The No. 2 is suitable for use on the Spoke Nipples of bicycles.

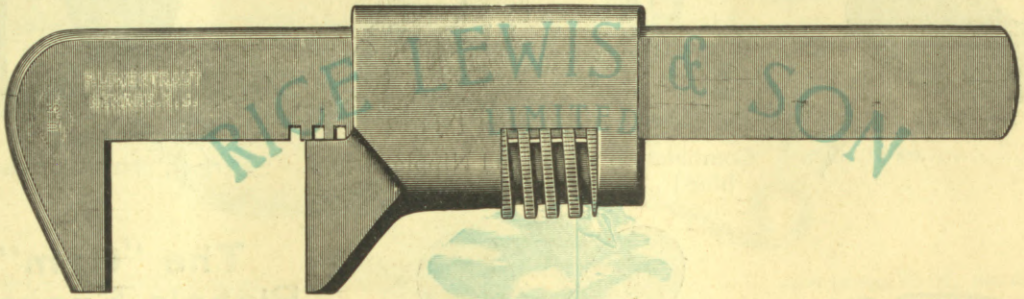
RICE LEWIS & SON LIMITED TORONTO, ONT.

WRENCHES

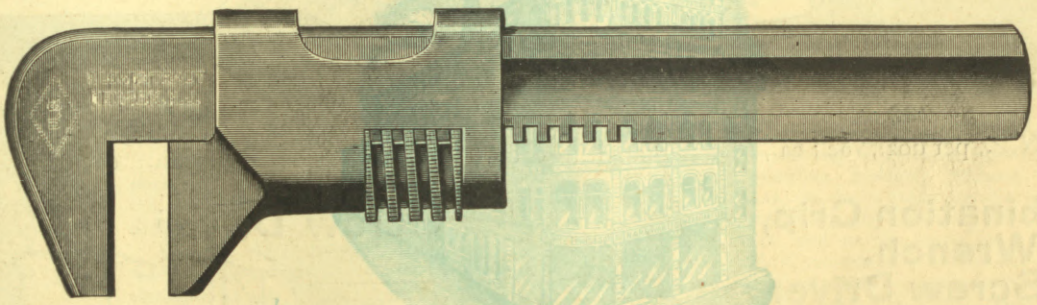


No. **290**. Nickel-plated (special pattern), all Wrought Steel .....Per doz., $2.40; each, 25c.

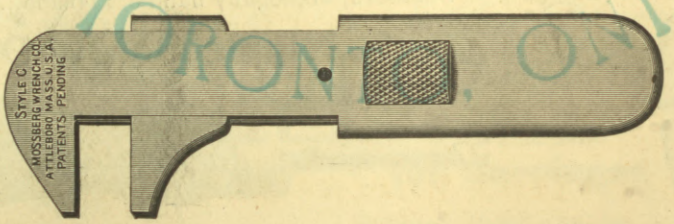
Drop Forged from a high grade of Steel, carefully tempered and highly finished.



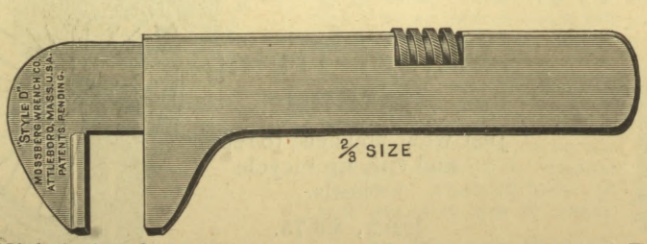
No. **191**. Polished, Forged Steel.....Per doz., $2.30; each, 25c.
" **192**. Nickel-plated, Forged Steel ..... " 2.75; " 30c.



No. **193**. Nickel-plated, Fluted .....Per doz., $3.20; each, 35c.



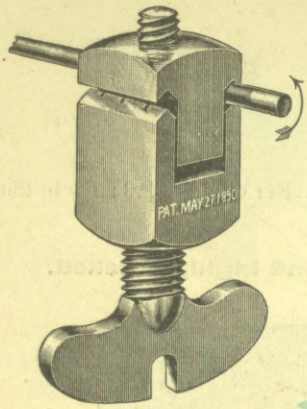
No. **201**. Mossberg C, Nickel-plated .....Per doz., $3.50; each, 35c.



No. **199**. Mossberg D, Nickel-plated.....Per doz., $3.50; each, 35c.

RICE LEWIS & SON LIMITED TORONTO, ONT.

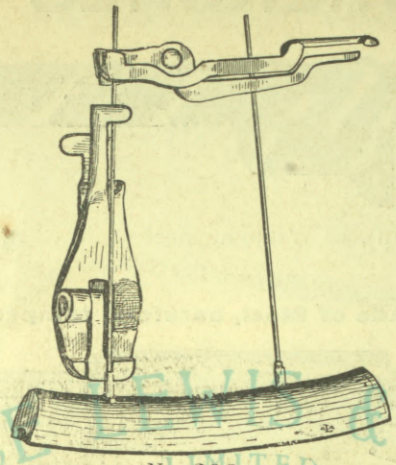
Spoke Grips



No. **205**

Double.....each, 80c.

Nipple Grips

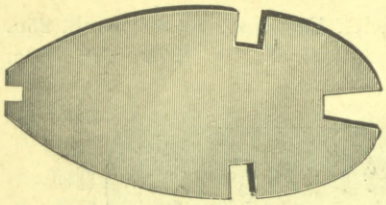


No. **206**

Combination Spoke and Nipple Grip, blued...per doz., $3.50; each, 35c.

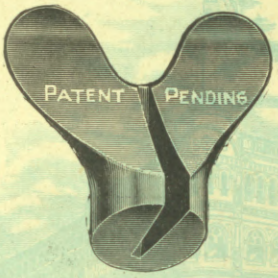
No. **204**

"Perfect," blued.....each, 70c.



No. **203**

"Pony," N.P., per doz., 75c.; ea., 10c.



No. **202**

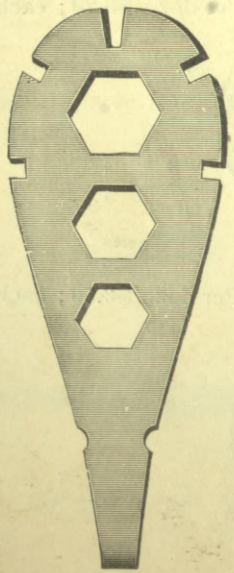
Plated.....each, 15c.

The "Gem" Pinhole Spanner

No. **201**

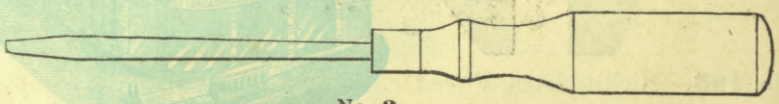
Blued.....each, 35c.

Combination Grip, Wrench, and Screw Driver



Plated, per doz., $1.80; ea., 20c.

Screw Driver



No. **3**

Standard, Mahogany handle, 2" blade.....per doz., $1.00

Nipple Screw Driver

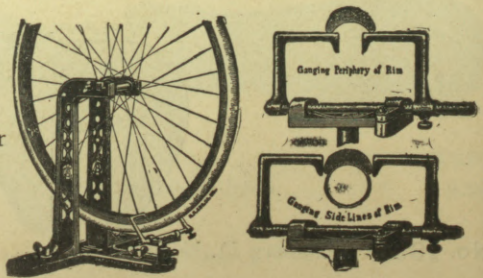
No. **200**

5" over all.....per doz., $2.50; each, 25c.

Wheel Truing Stand

Just what you need to repair and true up bicycle wheels.

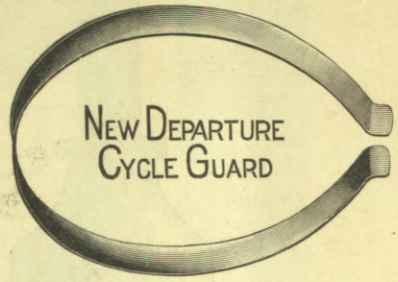
Each, $6.75.



RICE LEWIS & SON LIMITED
TORONTO, ONT.

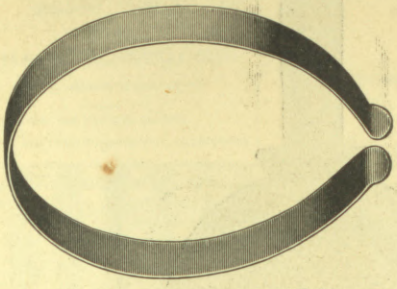
TROU BELLS RDS

CORRUGATED



No. 228. Japanned.....per gross, $2.60; per doz., 25c.

PLAIN



No. 229. Japanned.....per gross, $2.60; per doz., 25c.

No. 230. Soliel, or French Clip, blued.....per gross, $6.50; per doz., $0.70
" 231. " " " nickel-plated..... " 8.00; " 0.90

CYCLOMETERS

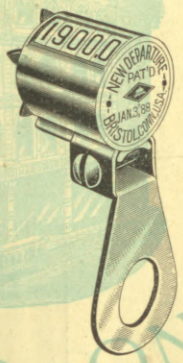
The "Jockey"

Geared throughout. Action positive. No springs nor eccentric parts. The registering is absolute. It cannot be re-set.

What is the good of a cyclometer whose mileage can be changed at will? You want one whose record you can bank on.

Made and warranted by the New England Watch Co.

No. 167, each..... $0.80
Per doz..... 8.50



EXACT SIZE

The New Departure

Non-corrosive, dust-proof, water-proof, simple, strong mechanism, giving direct and positive motion; without springs, ratchets, pawls or other cumbersome and intricate parts, thus forming the smallest, lightest, and at the same time the most durable Cyclometer in existence. No soft metals employed in its construction, every part being made either from hard brass or best nickel silver, which insures durability with lightness. Records 10,000 miles and repeats. Guaranteed by the New Departure Bell Company.

No. 166, each, 80c.; per doz., $9.00

U. S. Trip

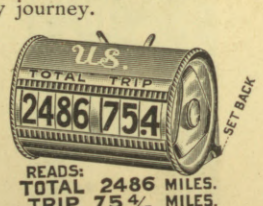
Registers 100 miles by tenths, and can easily be set to "0" at any time to record any journey.

The total registers up to 10,000 miles, and keeps a perfect record of the season's mileage.

The new spoke stud will not move on the spoke, but will always remain in its place.

OUR GUARANTEE.—Should the meter be damaged send to maker, with stamps, and he will return it in good order.

THE U.S. MFG. CO.,



READS:
TOTAL 2486 MILES.
TRIP 75 4/10 MILES.

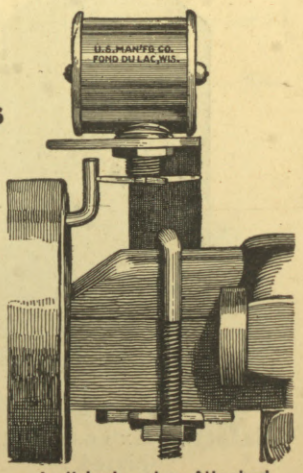
Trip Feature, with Improved Set-Back.

No. 169, each..... $1.00

U.S. Odometer for Carriages

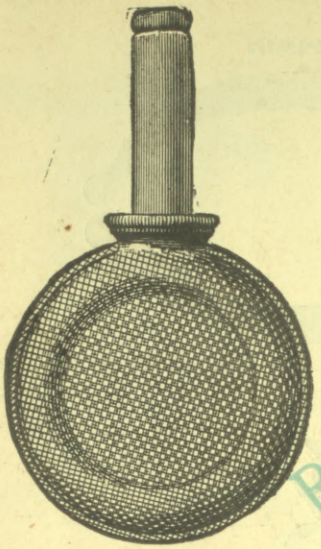
Registers 10,000 miles by tenths. The U.S. Odometer registers the distance traveled by a horse. Everyone who has a horse and carriage will be interested in this instrument. Liverymen, physicians, "speeders," etc., will find the "U.S." of great practical value. No one can guess with accuracy how far a horse has traveled. The "U.S." does no guessing. It tells the truth. In ordering state size of wheel.

No. 170, each, $2.50



As it looks when Attached

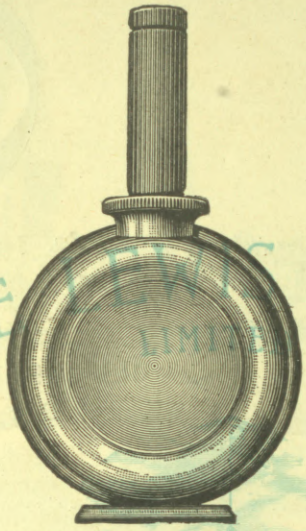
RICE, LEWIS & SON LIMITED TORONTO, ONT.



No. **224**

Perfect. Corrugated.

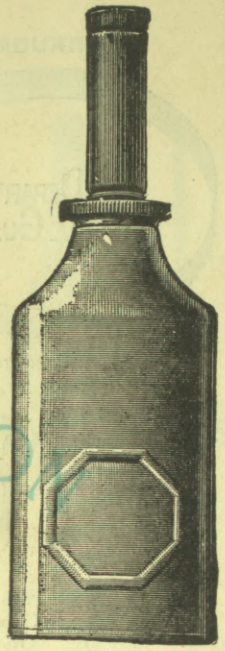
Per doz. $0.70
Each 0.10



No. **223**

Zenith. With stand, plated.

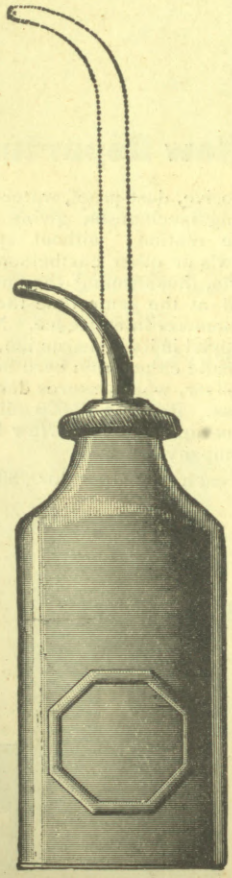
Per doz. $1.10
Each 0.10



No. **221**

Star. Plated.

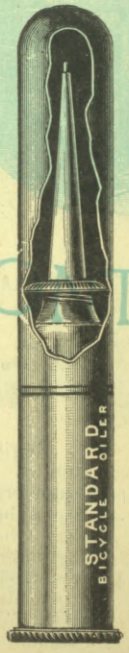
Per doz $0.70
Each 0.10



No. **225**

Safety. Extension Spout, plated.

Per doz. $2.00
Each 0.20



No. **219**

Standard. Plated, small or large.

Per doz. $2.40
Each 0.25

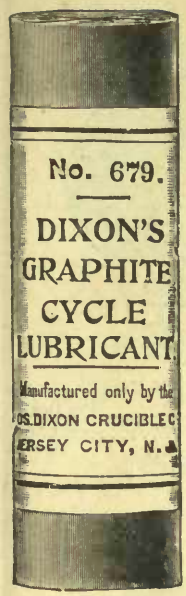
No. **220**

Magic. Plated.

Per doz. $1.00
Each 0.10

RICE LEWIS & SON LIMITED TORONTO, ONT.

BELLS



No. **679**
Per gross, $10.00
" doz.. 1.00

No. **691**
Per gross, $5.00
" doz.. 0.50

No. **692**
Per gross, $10.00
" doz .. 1.00

No. **267**
Per gross, $4.00
" doz.. 0.40

No. **254**
Per gross, $9.00
" doz.. 0.80

No. **52**
Brush and Graphite.....each, 20c.
Brush and Repair Kit .... " 30c.

ECLIPSE CHAIN LUBRICANT

No. 160. Graphite, 2-oz. sticks in tin foil.

Per gross, $2.75; per doz., 25c.

No. 161. Glase Mica, 2-oz. sticks in tin foil.

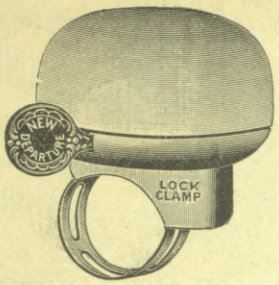
Per gross, $3.20; per doz., 35c.

No **3**
3-oz. bottles.
Per doz.....$2.40
" bottle.... 0.25

No. **265**
Gross lots only $4.80
Per doz..... 0.45
" gallon.... ..... 1.00

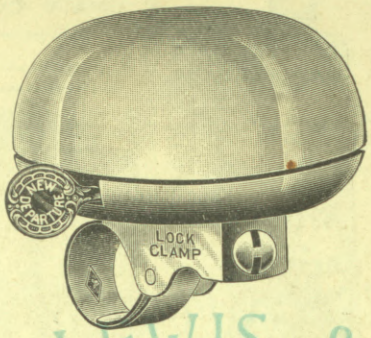
REDUCED CUT
No **4**
Per doz.....$2.20
Each 0.25

Metal Polish.
Per doz., 50c.; each, 5c.



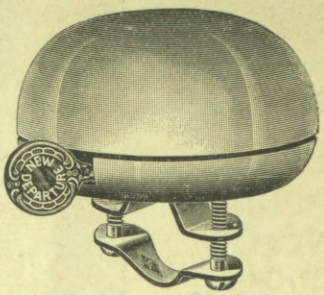
Electric Stroke

	Per Doz.
No. E 9½. 1¾" Gong	$5.00
" E 7½. 2" "	6 00
" E 5½. 2½ "	10.00



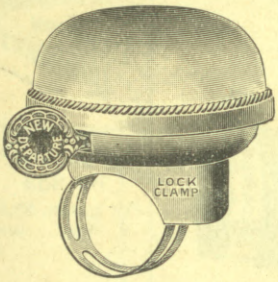
Electric Stroke

	Per Doz.
No. E 3½. 2¾" Gong	$12.00



Electric Stroke

	Per Doz
No. E 6½. 2¾" Gong	$9.50

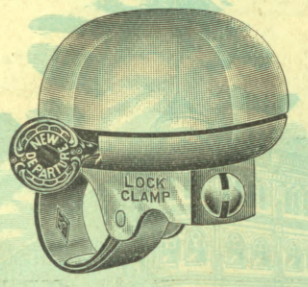


Electric Stroke

	Per Doz.
No. E 9. 1¾" Gong	$5.60
" E 7. 2" "	6.50

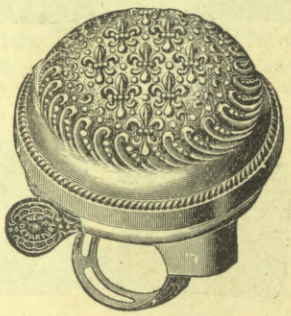
Double Stroke

" D 8. 1¾" Gong	4 70
" D 6. 2" "	5.35



Double Stroke

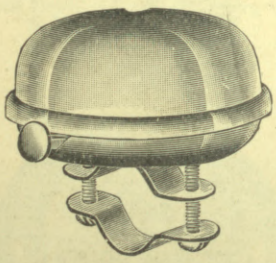
	Per Doz.
No. D 8½. 1¾" Gong	$4.25
" D 6½. 2" "	5.10



Fleur De Lis

	Per Doz.
No. 1126. Electric Stroke, 2" Gong	$ 8.00
" 1125. Push button, continuous ring 2" Gong	15.00

CONTINUOUS RING

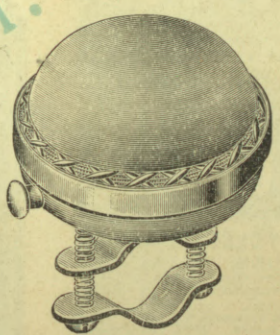


Push Button

	Per Doz.
No. 415. 2" Gong	$11.00
" 413. 2¼" "	11.00

Push Button

	Per Doz.
No. 425. 2" Gong	$12.00
" 423. 2¼" "	12.00



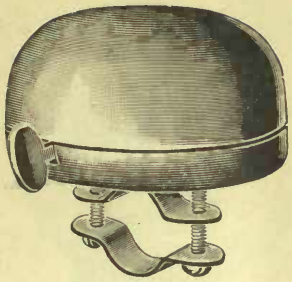
Push Button

(Rotary Movement Non-Revolving Gong)

	Per Doz.
No. 150. Screw Clamp, 1¾" Gong	$10.80
" 152. Band Clamp, 1¾" Gong	11.50

RICE LEWIS & SON LIMITED TORONTO, ONT.

BELLS



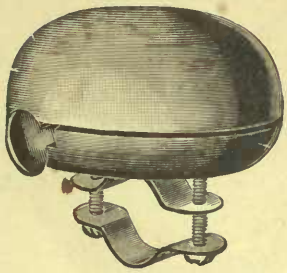
Electric Stroke

Per Doz.

No. 211. 1¾" Gong..... $2.40
" 212. 2" " 3.00

Double Stroke

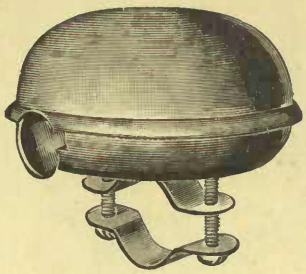
" 111. 1¾" Gong..... 2.50
" 112. 2" " 2.70



Electric Stroke

Per Doz.

No. 311. 1¾" Gong..... $3.00
" 312. 2⅛" " 3.60



Electric Stroke

Per Doz.

No. 311 B. 1¾" Gong..... $3.20
" 312 B. 2⅛" " 3.80

Electric Stroke

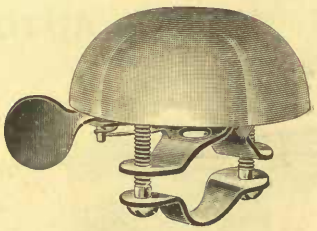
Per Doz.

No. 321. 1¾" Gong..... $3.50
" 322. 2⅛" " 4.00

Electric Stroke

Per Doz.

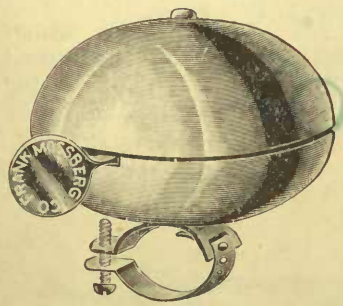
No. 321 B. 1¾" Gong..... $3.70
" 322 B. 2⅛" " 4.20



Single Stroke

Per Doz.

No. S 4 ..... $1.60



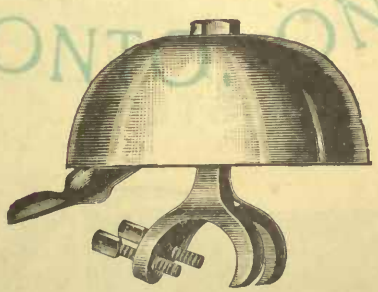
This bell is entirely new in principle and design and has less number of parts than any chime bell made.

Action is reversible for either right or left hand.

Each stroke produces two clear and distinct tones.

Per Doz.

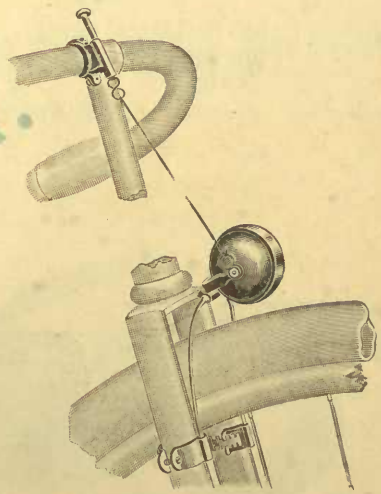
No. 10. Double stroke, 2½" Gong $6.50
" 12. Electric stroke 2½" Gong 11.50



Single Stroke

Per Doz.

No. 14½. 2½" and 2¾" Gong $1.20



Tire Bell, Continuous Ring

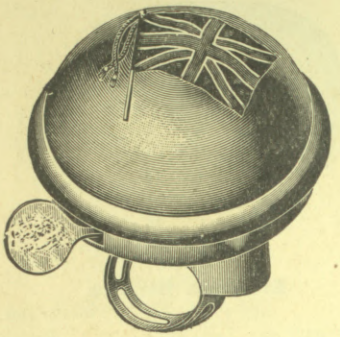
er Doz

No. T 9. 2" Double Gong with spring push $6.00

RICE LEWIS & SON LIMITED TORONTO, ONT.

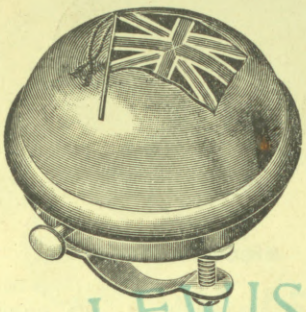
BELLS

DECORATED



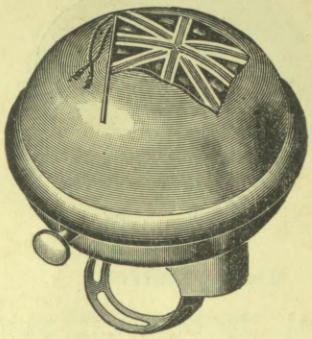
Electric Stroke

No. 223. 2" Gong.
Per doz. ..... $6.00.



Continuous Ring

No. 514. 2" Gong.
Per doz. ..... $12.50.

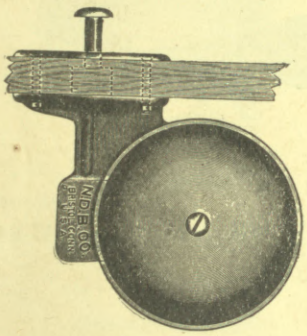


Continuous Ring

No. 524. 2" Gong.
Per doz ..... $13.00.

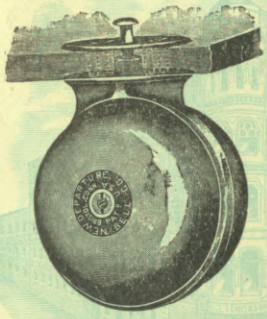
RICE LEWIS & SON LIMITED

AUTOMOBILE BELLS



Rotary

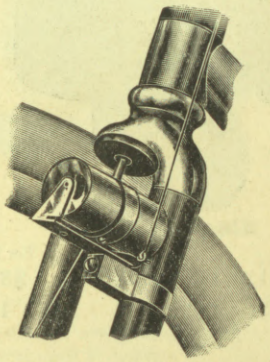
No. F-63. 3½" Bell Metal Gong, nickel trimmings, enameled case.
Each ..... $3.75.



Double Stroke Chime

No. F-95. 3½" Bell Metal Double Gong of different tone, all nickel plated.
Each ..... $9.00.

TIRE WHISTLE

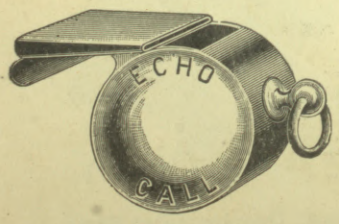


Cycle Whistle

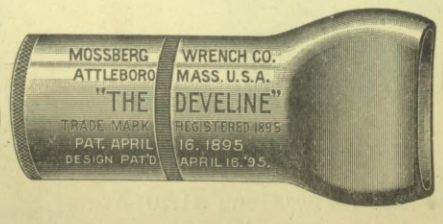
No. 228. Double action, whistling at each end. Can be attached to any bicycle. 1¼" diameter, 2½" long. Each ..... $1.33.

TORONTO, ONT.

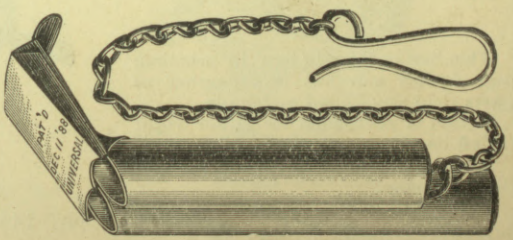
WHISTLES



No. 225. Echo Call.
Per doz., $2.20.

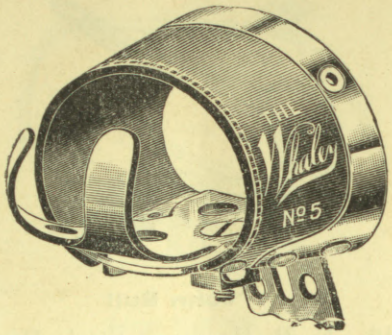


No. 216. The Develine Whistle.
Per doz., $1.50.



No. 227. Universal Whistle.
Per doz , $2.40.

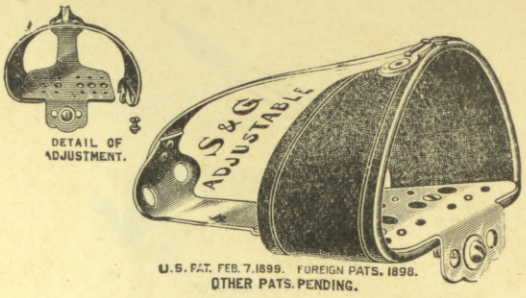
TOE CLIPS



THE WHALEY
ADJUSTABLE BICYCLE STIRRUP

No. 417. Is adjustable to all sizes of shoes without losing shape or strength. Will not mar the shoe or bruise the foot. Made of water-proof strap leather, Russet finish. The metal parts are spring steel polished nickel-plated finish.

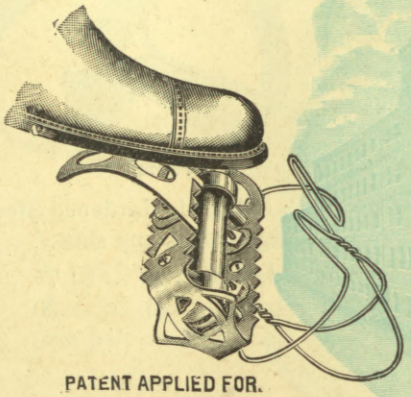
Per doz. pairs, $4.80. Per pair, 50c.



THE S. & G. ADJUSTABLE TOE CLIP

No. 406. The S. & G. Adjustable has a one-piece cover, and can be quickly changed to fit a large or small foot. The cover spring is the strongest form that can be made, and will stand without injury any ordinary usage. Will not injure the finest shoes.

Per doz. pairs, $4.80. Per pair, 45c.

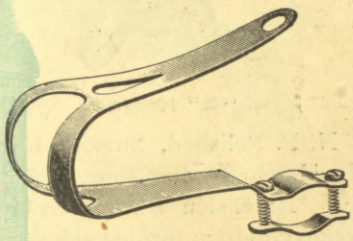


PATENT APPLIED FOR.

HANDY FOOT GUIDE OR CLIP TRIPPER

Makes it doubly easy to insert the feet into any toe clip. Made of spring steel, nickel-plated.

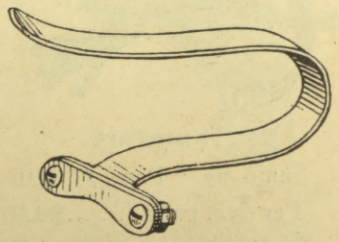
Per doz. pairs, $1.65. Per pair, 15c.



UNITY

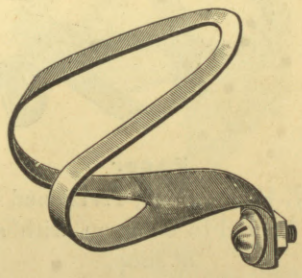
No. 419. Nickel-plated, polished, hardened steel, round edge. Attaches to centre-bar of pedal.

Per doz. pairs, $2.00. Per pair, 25c.



No. 410. Nickel-plated, polished, two bolts.

Per doz. pairs, 80c. Per pair, 10c.

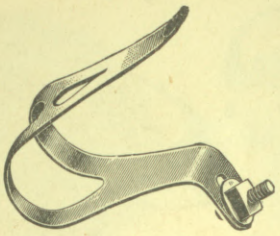


No. 413. Nickel-plated, polished.

Per doz. pairs, $1.50. Per pair, 15c.

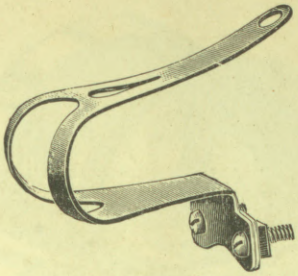
RICE LEWIS & SON LIMITED TORONTO, ONT.

TOE CLIPS



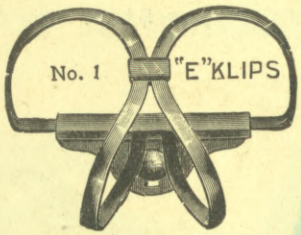
Holdfast

No. 411. N. P. Polished Hardened Spring Steel.
Per doz. pair..... $1.80
Per pair ..... .15



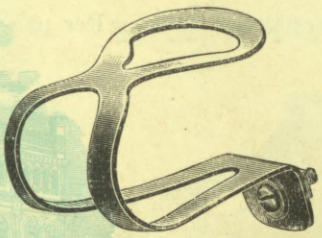
John Bull

No. 412. N. P. Hardened Steel, Round Edge, two bolts.
Per doz. pair..... $1.90
Per pair..... .25



"E" Klips

No. 408. N. P. Polished, Smooth Edge, adjustable in width to fit any shoe, will not mar shoe. Extension over pedal plate keeps clip from turning sideways.
Per doz. pair.....$3.00
Per pair ..... .30



Scorcher

No. 415. N. P. Polished, Hardened Steel, Round Edge. Fits any shoe.
Per doz. pair..... $1.75
Per pair ..... .20

Pacer

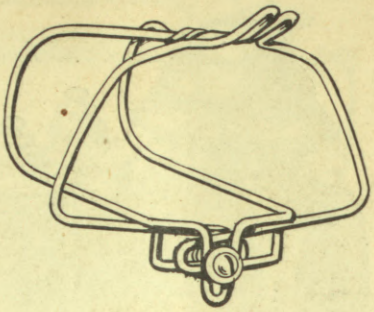
No. 418. N. P. Polished, Hardened Steel. Top piece curved to conform with shape of shoe.
Per doz. pair..... $2.00
Per pair ..... .25

Kumfurt

No. 404. Same as "Pacer," with two bolts.
Per doz. pairs.....$2.50
Per pair ..... .30

RICE LEWIS & SON LIMITED TORONTO, ONT.

TOE CLIPS

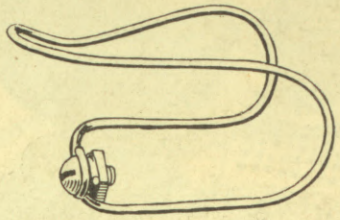


Design Registered

Adjustable Wire Basket Clip

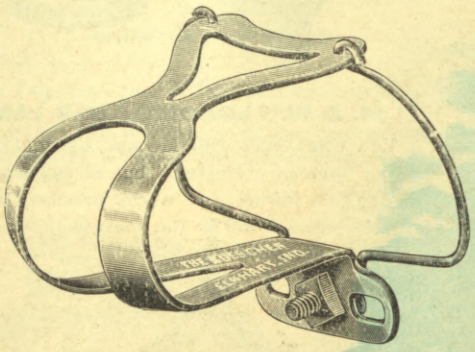
This Clip presents a flat surface for the foot, and bolted on the inside of the pedal, does not roll.

No. 204. N. P., per doz. pair, $1.80; per pair, 20c.



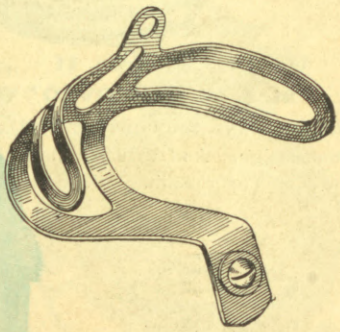
Single Bolt

No. 205. N. P., Wire Clip, per dozen pair, $1.00; per pair, 12c.

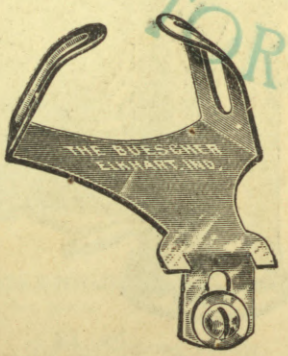


No. 407. N. P., Polished Hardened Steel, with wire side guard.

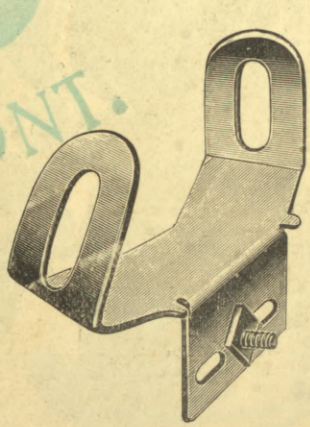
Per doz. pair..... $1.86
Per pair ..... .20



No. 416. N. P., Polished, per dozen pair, $2.80; per pair, 30c.



No. 414. N. P., Polished, 2½ or 3″ wide, per doz, pair, $2.50; per pair, 25c.



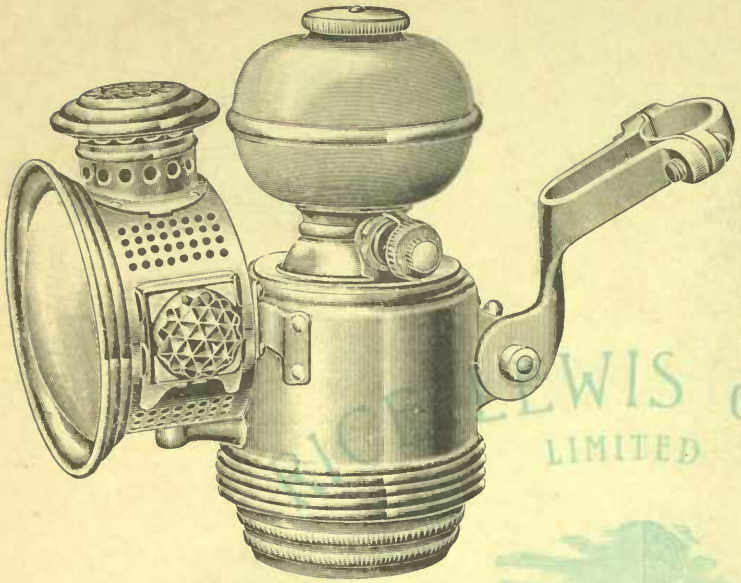
No. 409, A, for ladies, 2½″,
B, small men's, 3″,
C, medium men's, 3¼″,
D, large men's, 3½″.

Per doz. pair..... $2.40
Per pair ..... .25

RICE LEWIS & SON LIMITED
TORONTO, ONT.

ACETYLENE GAS LAMPS

NO SMOKE, GREASE OR ODOR

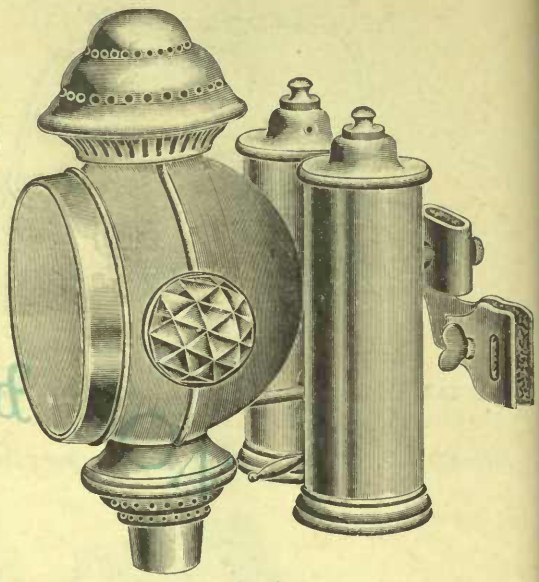


No. **11**

"M. & W. IMPROVED" GAS LAMP

IMPROVED AND BROUGHT UP-TO-DATE. New in everything but design. And with our new "Duplex Bracket" it has few equals as a medium priced lamp.

Price, each, $3.00.

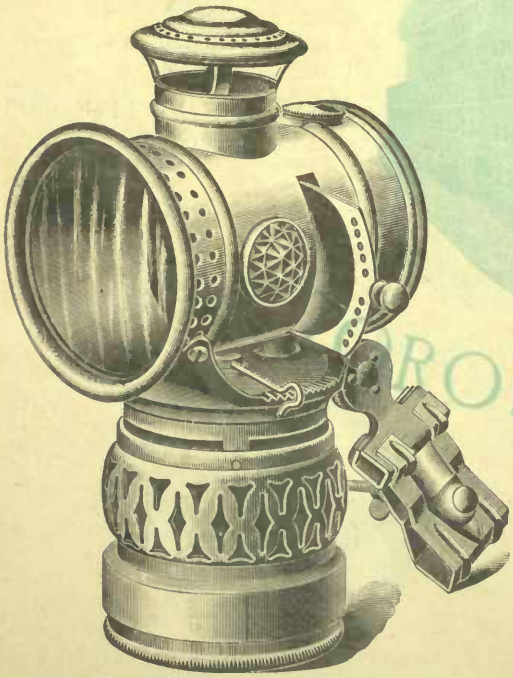


No. **7**

M. & W. "LOCOMO" GAS LAMP

FOR CARRIAGES AND MOTOR VEHICLES. Built like our famous "Duplex," but of larger capacity, with half-foot burner. It works precisely the same as the "Duplex," and is the most satisfactory gas-lamp for vehicles ever introduced.

Price, each, $10.00.

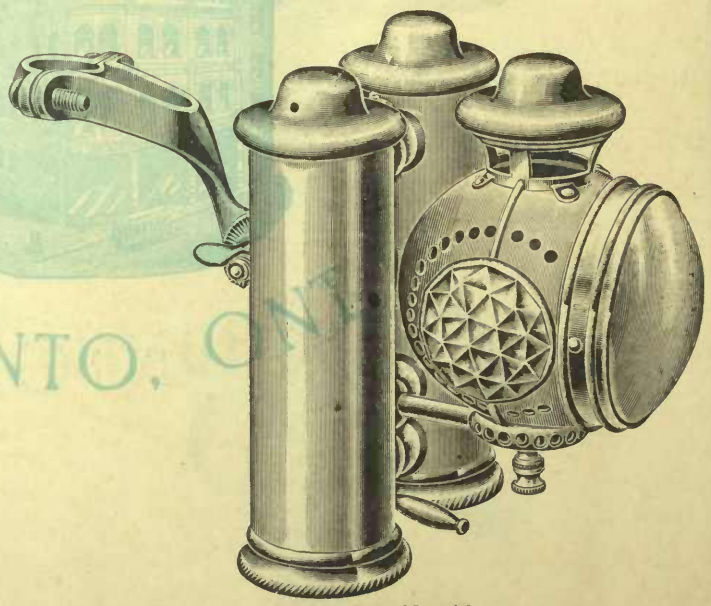


No. **8**

"DAYLIGHT"

Has rocker bottom carbide holder which makes it easy to remove same. Perfectly focused lens and reflector. Use loose carbide.

Price, each, $3.50.



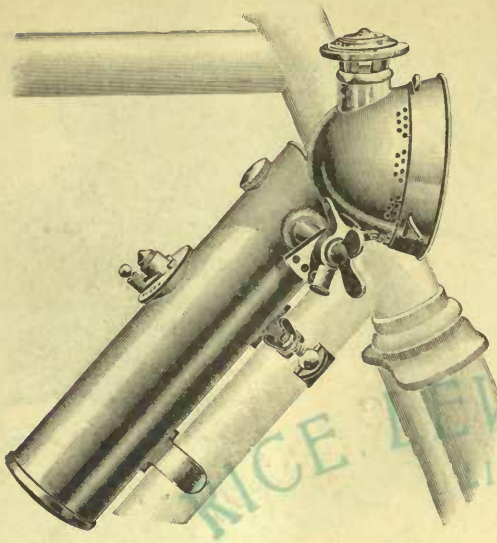
No. **13**

M. & W. "DUPLEX" GAS LAMP

IT'S DIFFERENT—New and Novel. Made on gas lines. Candle power, 175. Turns up or down, on or off. Automatic and mechanical. A cool lamp but a hot seller, in fact the very best gas lamp on the market at any price.

Price, each, $3.75.

ACETYLENE GAS LAMPS

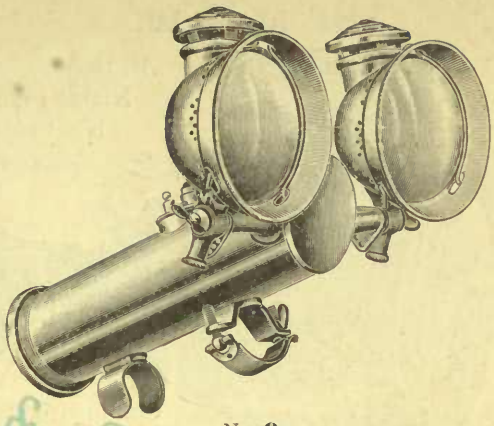


No. **10**

NEW DEPARTURE

Each $3.60

New Departure Lamps have automatic generator feed. Use loose carbide. No special form of charge required. Flame may be regulated while riding. Lamp may be adjusted to throw light at any desired angle. Lamp and generator separate, thus making a small lamp and insuring against explosions. Lamp finished in full nickel plate.

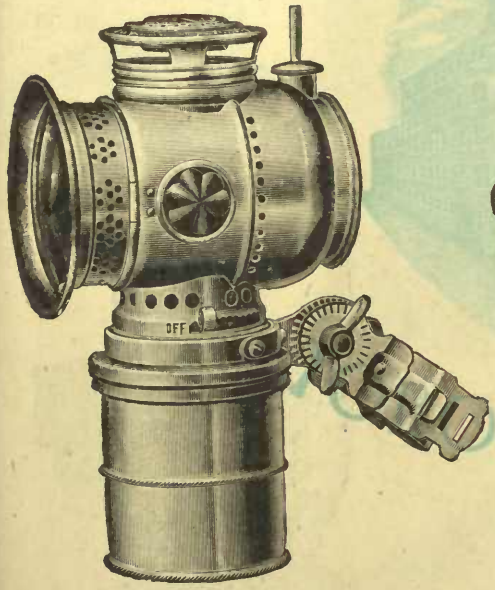


No. **9**

NEW DEPARTURE TWIN HEAD LIGHT

Has two burners, giving the most powerful light obtainable by any means. Each lamp is adjustable independently, so that any area or angle of light may be obtained.

Each.....$5.40



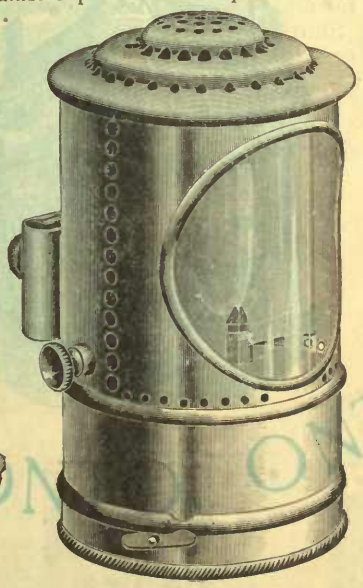
No. **6**

BRECKENRIDGE

(New Model)

Special design. Non-carbonizing burner. Use loose carbide. Water, which is supplied at bottom of lamp, causes gas to ascend through the dry carbide, thus taking all moisture from gas. Has 2½-inch double convex lens, perfectly focused.

Each.... .....$3.50



No. **5**

M. & W. "RAINBOW"

Without exception the best low-priced gas lamp. It is our leader. Turn valve on full, the lamp runs itself—enough said.

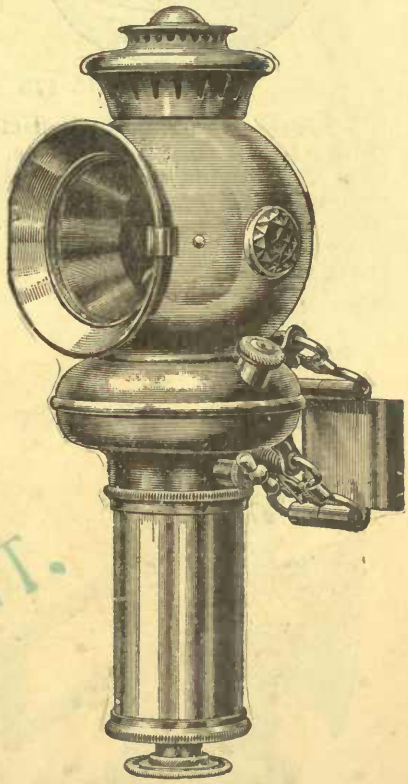
Retail price, each....$1.60

CARBIDE

IN SEALED TINS

1¼ lb. tins.....each, 20c.
2½ " ..... " 30c.

Price on application for cases of 2 dozen tins or bulk.



No. **12.** Acetylene Lamp.

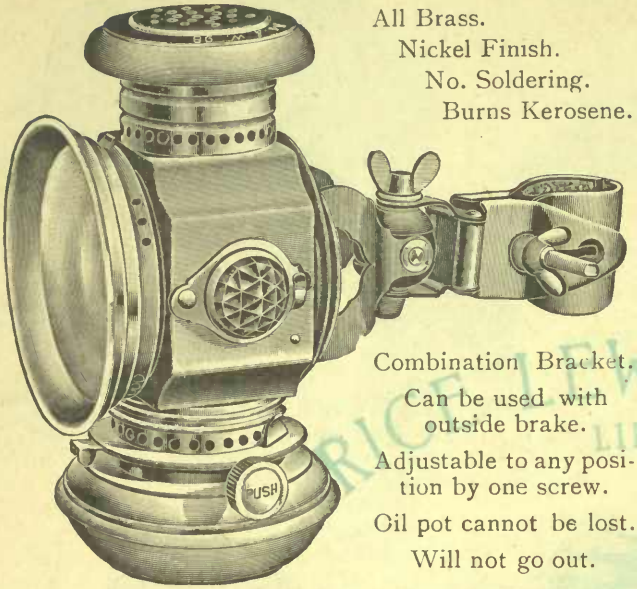
THE SCHUMACHER

Is loaded with a cartridge like a breech-loading gun. Every cartridge guaranteed to burn with a clear, even flame. Safest, cleanest and quickest lamp to operate on the market. A combination of simplicity and perfect action.

No. 12. Lamps, with 3 cartridges.
Each $1.50
No. 14. Cartridges for No. 12 Lamp.
Per doz.....75c.

OIL LAMPS

THE M. & W.



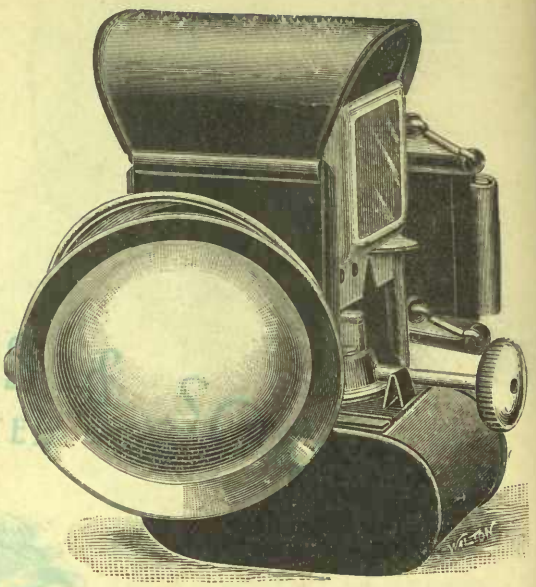
All Brass.
Nickel Finish.
No. Soldering.
Burns Kerosene.

Combination Bracket.
Can be used with outside brake.
Adjustable to any position by one screw.
Oil pot cannot be lost.
Will not go out.

No. **178**

The M. & W. Patent Reflector is the only reflector which can be removed complete, for cleaning or polishing, through the lens opening. Simple construction, air-tight and secure. No springs or wires. The double convex lens is large and powerful, throwing a white, bright, steady light over 100 feet.

Each $2.25



No. **186**

Has 2⅛" Double Convex Lens, Plated Cone Front and Reflector, Detachable Oil Reservoir, Nickel-plated Wind-up Burner, etc.

Japanned, each $1.00

LIGHT WEIGHT

No. **177**

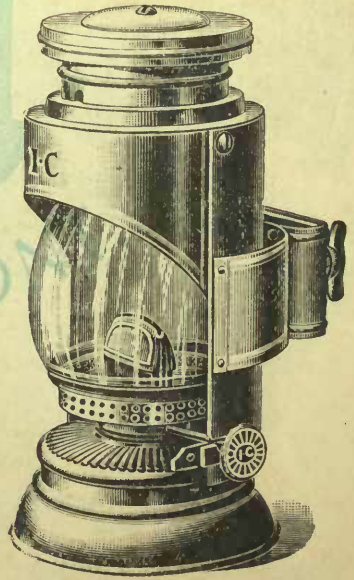
Spring Back, Improved Design, Side Lights, Burns Kerosene Oil only, Nickel-plated.

Each $1.20

Standard Lamp Oil.

Per doz $1.70

THE I. C.

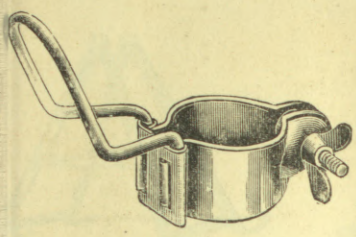


No. **179**
(One-Half Actual Size).

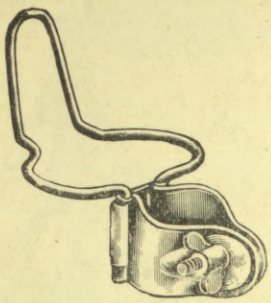
All Brass, Nickel-plated, no Soldering, all parts riveted, won't blow or jar out.

Each **$1.00**

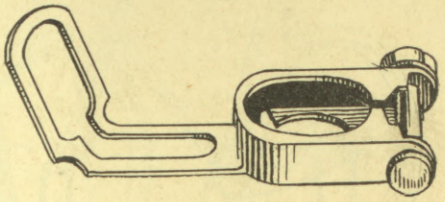
LAMP BRACKETS



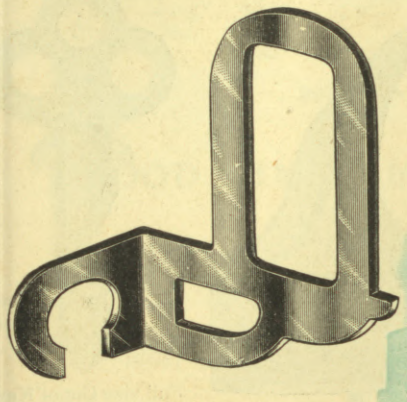
No. **179**
Standard
Bracket for Head, lined and N.P.
Per doz., $1.35; each, 15c.



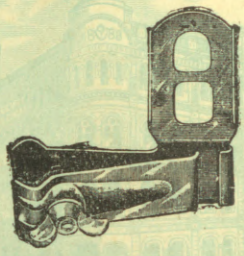
No. **185**
Brake Bracket
For Head, lined and N. P.
Per doz., $1.50; each, 20c.



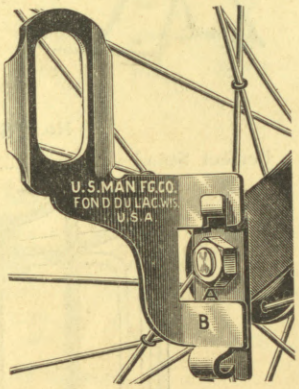
No. **76**
Head Lamp Bracket and Bolt
N. P.
Per doz., $1.00; each, 10c.



No. **177**
Nickel-plated sheet steel Bracket
for Axle,
Per doz., 40c.; each, 5c.

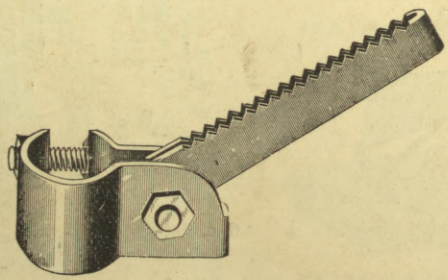


No. **178**
Fork Bracket
Reversible. Fits any Fork, N.P.
Per doz., $1.80; each, 20c.

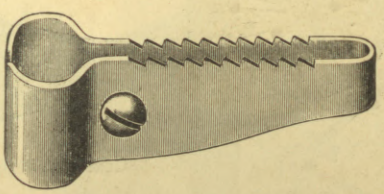


No. **180**
U. S. Detachable Bracket, for
Axle, N. P.
Per doz., $1.00; each, 10c.

COASTERS



No. **318**
Folding Coaster, N. P., per doz. pair, $3.00;
per pair, 25c.

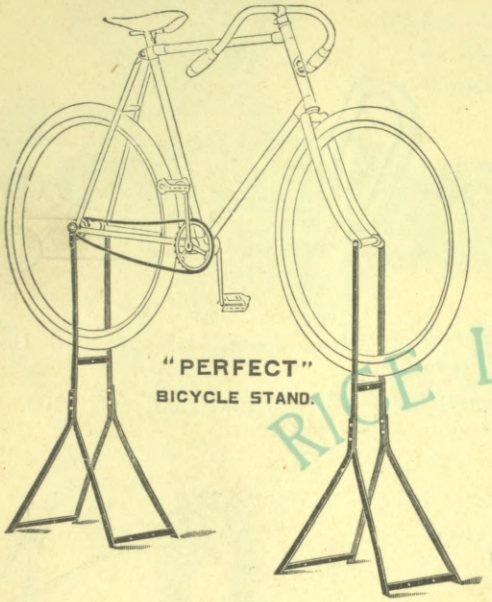


No. **319**
Hercules Coaster, N.P., per doz. pair, $1.80;
per pair, 20c.

RICE LEWIS & SON LIMITED TORONTO, ONT.

BICYCLE STANDS

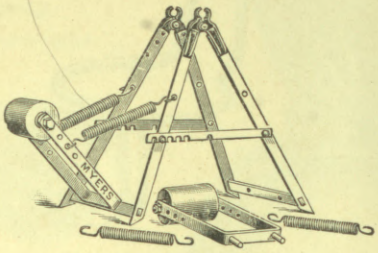
MYERS'—THE ONLY PRACTICAL EXHIBITION STANDS ON THE MARKET. ALLOWS THE PURCHASER TO MOUNT THE WHEEL



"PERFECT" BICYCLE STAND.

No. **767**

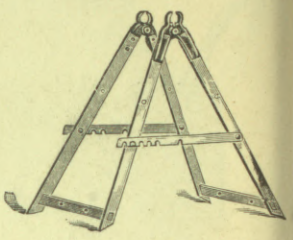
Perfect Stand ..... Per pair, $3.40



No. **703**

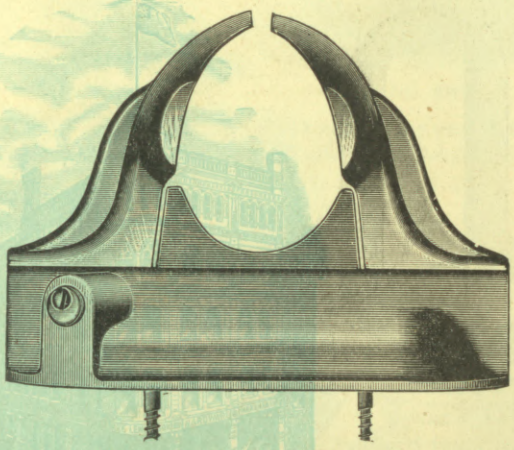
Home Trainers, complete, each, $1.70

Wheel Truing Attachment for Myers' Stands, each, 60c.



No. **697**

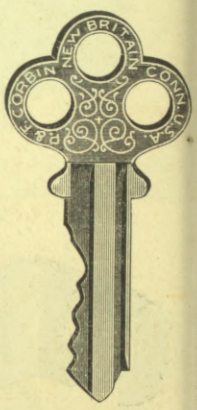
Stands .....each, 85c.



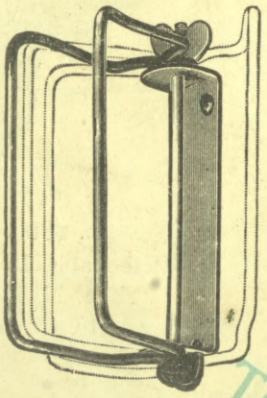
No. **740**

One-half size Cut of Bicycle Locking Stand.

Each..... $1.80



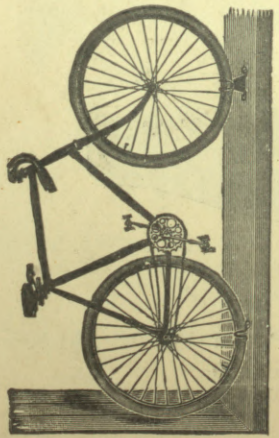
Full size Cut of Key.



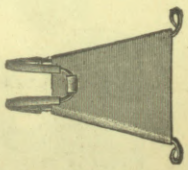
IDEAL WALL STAND—Patented.

Adjusts at any angle by using thumb screw.

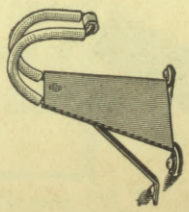
Each, 25c.



FLOOR.



Gem Top, Plain.

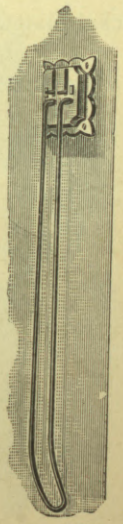


Gem Top, with Brace.

Gem Bottom.

	Covered with rubber.		Covered with leather.	
	Per Doz.	Each.	Per Doz.	Each.
GEM Tops, plain.....	$1.00	$0.13	$1.20	$0.13
" with Brace.....	1.33	.16	1.46	.16

" Wire bottom, per doz., 33c.; each, 6c.



No. **274**

Simplex Stand.
Screws on wall.
Drops down when not in use.
Each..... 20c.

RICE LEWIS & SON LIMITED TORONTO, ONT.

RUBBER SOL TIRES D

RUBBER PATCHING SOLUTION

o.....	0	1	2	3	4	5
	—TUBES—		—TINS—			
	2½ x ½"	4 x ¾"	¼ pt.	½ pt.	pint.	qrt.
r doz.,	20c.	35c.	....	....	...	....
ach.....			12c.	20c.	35c.	60c.

HEAVY CANVAS SOLUTION

No.....	10	11	12	13
	¼ pint.	½ pint.	pint.	quart.
Each.....	25c.	40c.	70c.	$1.00

NOTE—Our Solution is done up in IMPERIAL MEASURE TINS

WOOD RIM CEMENT (for Cementing Tires to Rims)

o....	14	20	21	22	23	24	25	28
	Bottles with	—TUBES—		—United States Wine Measure—TINS—				
	Swab.	2½ x ½"	4x¾"	¼ pint.	½ pint.	pint.	quart.	gal.
er doz.....	$1.00	0.30	0.50	1.00	1.80	3.00	....	....
ach.....	.10	.05	.05	.10	.18	.30	.60	2.00

NOTE—Our Wood Rim Cement is American make and is done up in Tins of U.S. Standard Wine Measure

JIFIOD PLUGGING CEMENT

o.....	7	8
ubes.....	2½ x ½"	4 x ¾"
er doz.....	$0.60	1.00

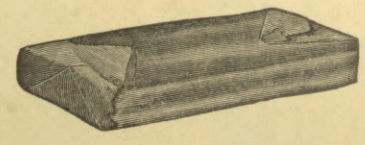
PURE GUM SHEET RUBBER

1st Grade	Per lb.,	$3.00
2nd "	"	2.20
2nd " Squares, 4 x 4"	Per doz.,	.50

er doz..... $1.35
ach..... .15

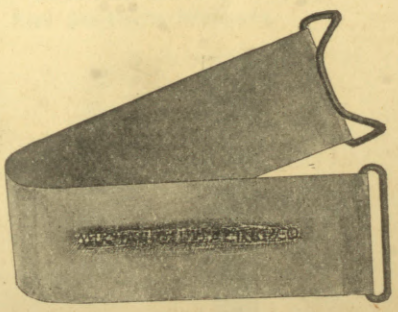
HARD TIRE CEMENT

BEST RED



1 lb. packages ..... per lb., $0.40
No. 0, Telescope boxes, per doz. 1.35

EMERGENCY BANDS



Made of good quality rubber. Can be placed around tires and rim, secure y binding and holding air in the tires until repairs are effected.
Per doz., $1.50. Each, 15c.

RICE LEWIS & SON LIMITED TORONTO, ONT.

B YCLE STA

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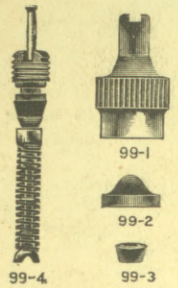
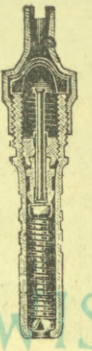
ON STANDS ON THE MARKET. AI

SCHRADER UNIVERSAL



Valve Parts

No. 1, Caps.....per doz., $0.53
" 2, Cap Washers, per 100, .75
" 3, Plunger " " .40
" 4, Inside Parts per doz. .67
" 5, Plungers..... " .35
" 6, Plugs..... " .15
" 8, Springs ..... " .10



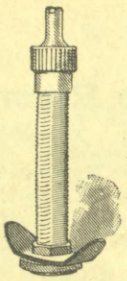
No. **8**

Valve.....per 100, $9.00
" ..... per doz., 1.13
" .....each, 0.13

No. **9**

Metal Base.

Per doz.....$2.00
Each..... 0.17



No. **10**

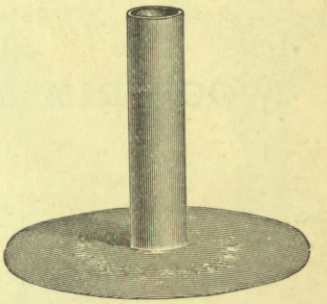
Dunlop Metal Base.

Per doz.....$1.67
Each 0.17

No. **11**

Valve and Stem complete.

Per 100 .....$15.00
Per doz. 1.67
Each 0.20



No. **12**

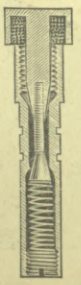
Valve Stems

Per 100.....$3.50
Per doz..... 0.50

Valve Tubing.....per foot, 8c.

WOODS BROS.'

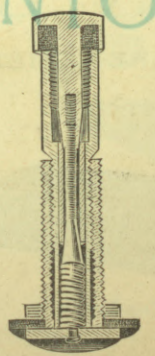
All Metal. No Rubber or Leather used in Construction of Valve Parts



No. **13**

Valve.

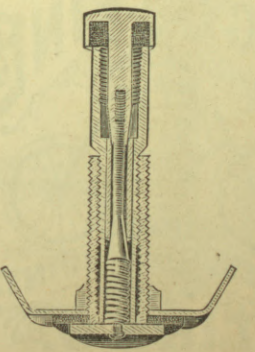
Per 100.....$9.00
Per doz..... 1.13
Each 0.13



No. **14**

Metal Base.

Per doz.....$2.00
Each 0.17



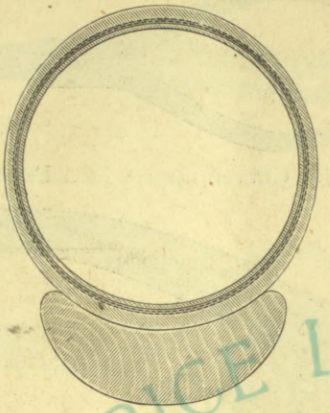
No. **15**

Metal Base.

Per doz.....$2.00
Each..... 0.17

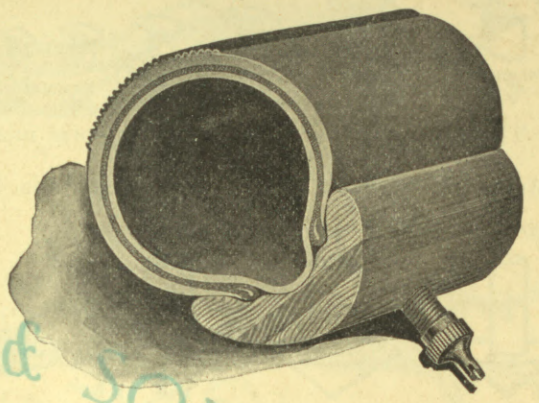
RICE LEWIS & SON LIMITED TORONTO, ONT.

TIRES



C. R. CO.—Double or Single Tube

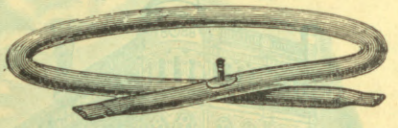
Per pair $8.00



DUNLOP DETACHABLE

Per pair $10.00

INNER TUBES



MADE OF BEST STOCK

Butt End or Continuous Pattern, X Quality	per doz., $10.50	each, $1.00
" " " XXX Quality	" 13.35	" 1.33
Vulcanized Butted Ends for repairing Inner Tubes	" 2.20	" .25

TREAD BANDS

Corrugated Protection Strips, for 28" wheels ..... each, 90c.

BICYCLE GEAR TABLE

For 28-inch Wheels

Teeth on front chain wheel.	Teeth on back chain wheel. 7	8	9	10
16	64	56	49 5/7	44 4/5
17	68	59 1/2	52 8/9	47 3/5
18	72	63	56	50 2/5
19	76	66 1/2	59 1/9	53 1/5
20	80	70	62 2/9	56
21	84	73 1/2	65 1/9	58 4/5
22	88	77	68 4/9	61 3/5
23	92	80 1/2	71 5/9	64 2/5
24	96	84	74 2/3	67 1/5
26	104	91	80 8/9	72 4/5
28	112	98	87 1/9	78 2/5
30	120	105	93 3/9	84
32	128	112	95 5/9	89 3/5

For 30-inch Wheels

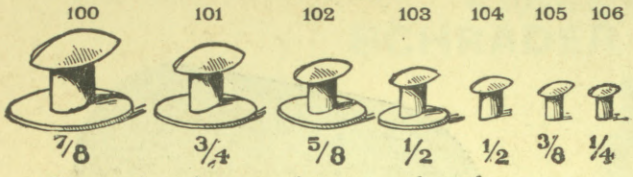
Teeth on front chain wheel.	Teeth on back chain wheel. 7	8	9	10
16	68 1/2	60	53 1/4	48
17	73	63 3/4	56 3/4	51
18	77	67 1/2	60	54
19	81 1/2	71 1/4	63 1/4	57
20	85 3/4	75	66 3/4	60
21	90	78 3/4	70	63
22	94 1/4	82 1/2	73 1/4	66
23	98 1/2	86 1/4	76 3/4	69
24	103	90	80	72
26	111 1/2	97 1/2	86 3/4	78
28	120	105	93	84
30	128	112	100	90
32	137	120	106	96

RICE LEWIS & SON LIMITED TORONTO, ONT.

Trimming Knife, 30c.

TIRE REPAIRS

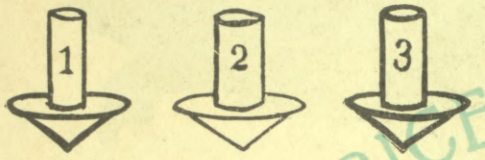
PLUGS



These plugs have oval stems and conform more easily to ordinary cuts.

Assorted ..... per doz. 25c.

UMBRELLA PLUGS



Nos. 1, 2, 3, assorted .....per doz. 15c.

LATEST INVENTION IN PLUGS

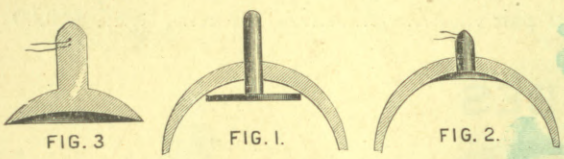
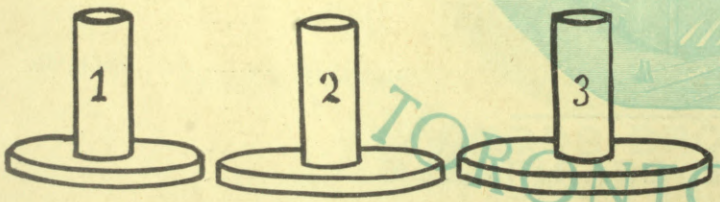


Fig. 3. The Strauss Curved Plugs are made in three sizes : ¾", 1", 1¼", and come in strips of one dozen each. The special feature of this plug is that it conforms to the shape of the tire and is bound to adhere to it. They are provided with a string, and are inserted in the usual way. These plugs will supersede all plugs at present on the market, and are the only plugs that will repair a cheap tire. Figure 1 shows the old style, and Figure 2 our Curved Plug with the natural position in the tire.

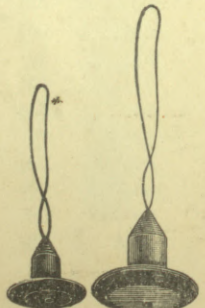
Assorted.....per doz., 30c.

FLAT PLUGS



Nos.	1	2	3
Per doz.	15c.	20c.	30c.

PLUGS WITH STRING

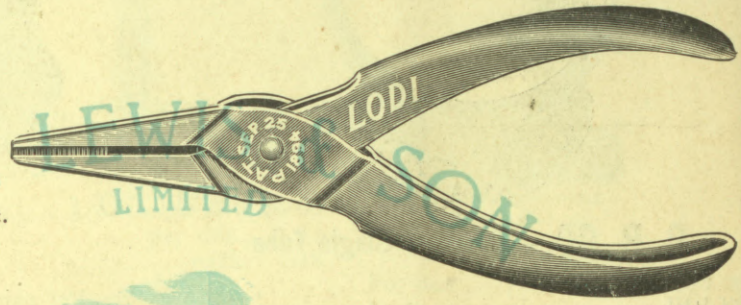


½ oz. rolls .....per doz., $0.25
½ oz. " ..... per gross, 2.50
½ lb. " ..... per lb., 0.60

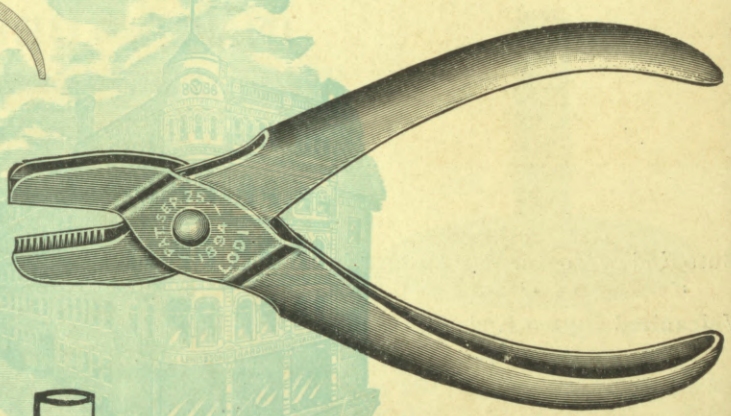
Small, 10c., Large, 20c. doz.

PLUGGING PLIERS

No. 87. Curved nose .....Per pair, 60c.



No. 88. Flat nose.....per doz., $1.00 ; each, 12c.



No. 89. Valve Pliers (as cut) .....each, 25c.
" 90. " " forged ..... " 50c.

TIRE LACING

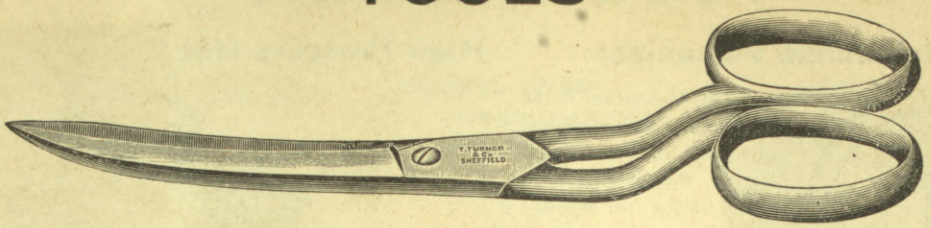
Waxed Linen

Hemp

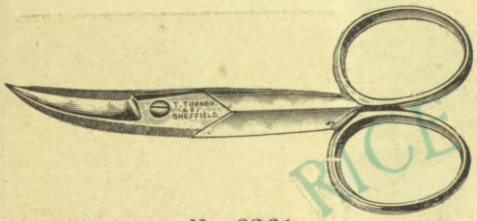
Cards, waxed linen ..... per doz., $1.20
¼ lb. balls waxed linen ..... each, .5
¼ lb. " hemp ..... " .20

RICE LEWIS & SON LIMITED TORONTO, ONT.

TOOLS



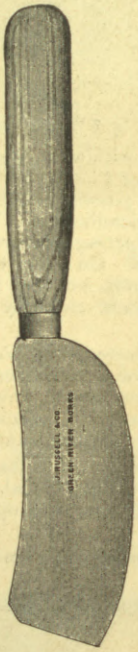
No. **6621**
Bent Handle Trimmers, Saw Tooth for Canvas work..... Each, 85c.



No. **6361**
Bent Nose Trimmer for Patch work...Each, 45c.

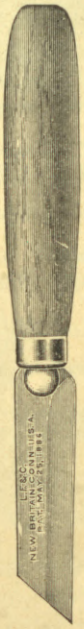
No. **100**
Pointed Trimmer for Patch work...Each, 80c.

RICE LEWIS & SON LIMITED TORONTO, ONT.

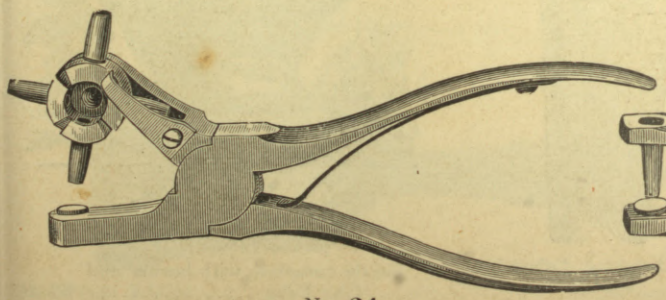


No. **5**
Pointed Trimming Knife.
Each, 30c.

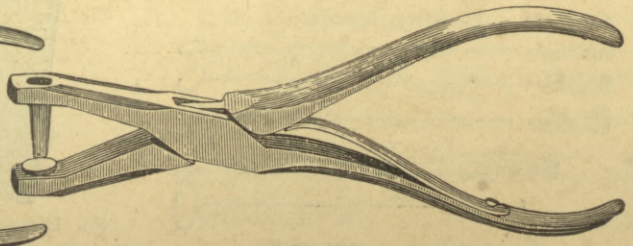
No. **15**
Round Pointed Trimming Knife.
Each, 30c.



No. **25**
Straight Pointed Trimming Knife. Each, 15c.



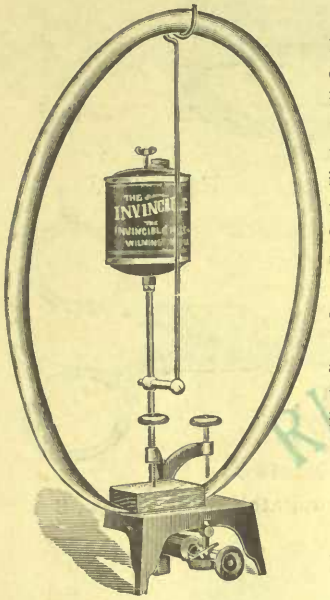
No. **24**
Revolving Tire Punch...Each, $1.20.



No. **10**
Single Tube Tire Punch...Each, 45c.

VULCANIZERS

The Invincible Vulcanizer



This Vulcanizer is the least complicated, easiest operated, and most effective on the market. It takes only a few minutes to heat up, and the burner is so adjusted that it cannot be heated too hot. Common stove gasoline is the fuel used.

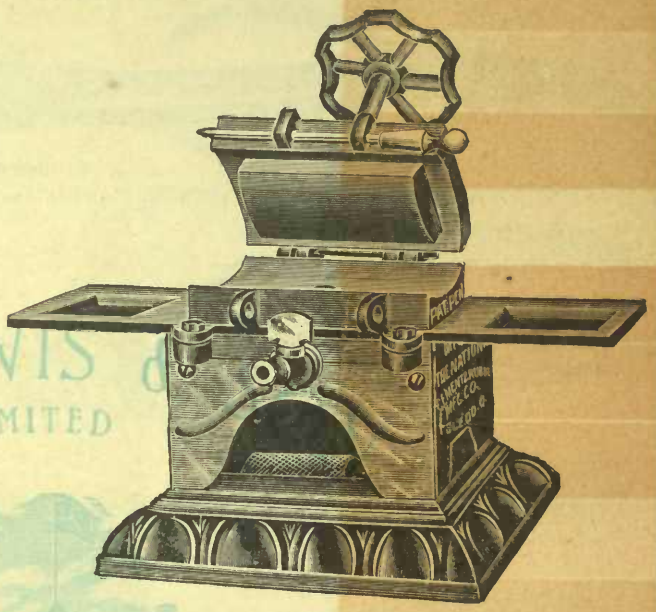
Each Vulcanizer is carefully tested.

Full directions for operating and instructions for vulcanizing are sent with it.

Invincible Vulcanizer, including material for twenty-five or more repairs.

Each $7.00

High Pressure Hot Water Vulcanizer



(Patent pending)

No Extra Valve Stem Core

This Vulcanizer is constructed with a hot water jacket lying underneath the Thermal or Heating Plate, and acts as a sheet of water through which the heat passes before reaching tire, obviating the danger of unequal vulcanization. The lower plate is extended for the purpose of protecting the tire from any heat that may possibly come from below. On either end of this plate is provided indentations to hold water, keeping the ends of the plate and tire cool. The tire is held carefully in place by the upper plate and pressure screw.

The Burner is located in the base of the Vulcanizer. The Improved '99 Burner for this Vulcanizer is raised free from the base and burns freely with an even heat. This burner is supplied with a specified quantity of alcohol sufficient to generate the amount of heat necessary to properly vulcanize a tire.

The Vulcanizer is automatic, as the vulcanization is complete when the alcohol is consumed. It is economical, and by following directions carefully we can assure the operator ultimate success.

Full directions for operating, and a small amount of supplies accompany each Vulcanizer.

No. 2 Hot Water Vulcanizer, complete, each.....$9.00

High Pressure Unvulcanized Patches with Strings

(One-third size)

Small size, per doz.....	30c.
Medium "	40c.
Large "	50c.
Extra large "	60c.

Vulcanizer Supplies

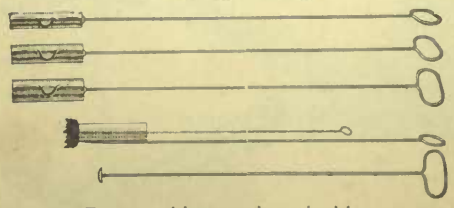
		Single Tubes	Pints
Stuff No. A.	For first coat... ..	10c.	$0.30
" B.	" second coat ..	30c.	1.50
		Per sq. foot	Sq. yard
Stuff No. C.	Canvas to apply inside	30c.	$1.85
" D.	Unvulcanized Rubber to apply outside		Per lb. $1.35

	Each
Hardwood Pegs	10c.
Rubber Forms	10c.
Sheet Metal Forms...	10c.
Soft Metal Forms	10c.
Hardwood Forms	10c.

Soapstone

Powdered, per lb..... .....10c.

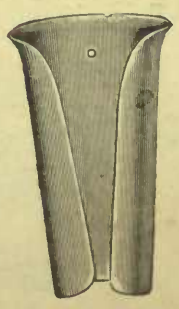
Casing Tools



For patching casings inside.

Set of 5 pieces... .....$3.00

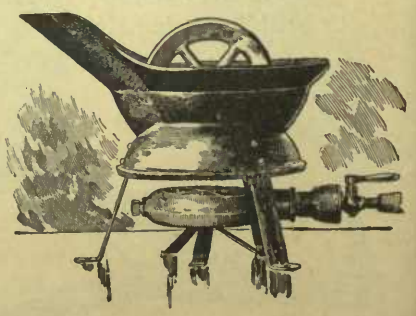
Tube Horn



For Directing Tubes into Casings.

Each ....12c.

Cement Kettle



Kettle complete with burner and Gas Tube $3.20

Kettle only, each 1.60

CYCLE ENAMEL

CYCLE BLUE

ORANGE

BRONZE GREEN

WHITE

ROSE

SNUFF

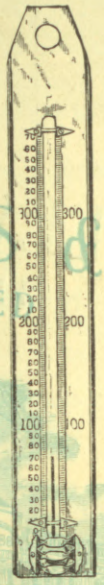
WINE

VERMILION

DEEP GREEN

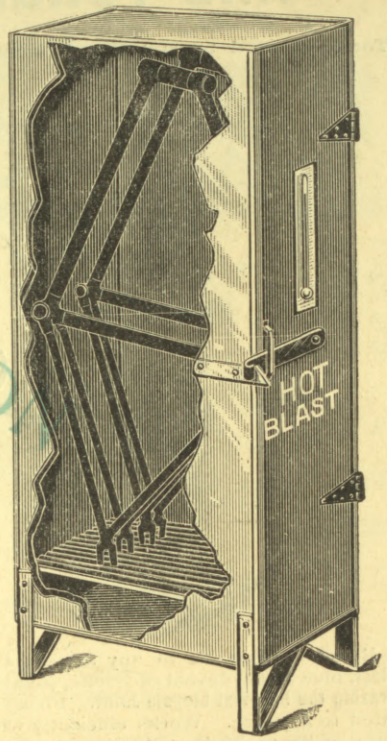
ROYAL PURPLE

ENAMEL OVEN THERMOMETER



Each, $2.50

ENAMELING OVEN



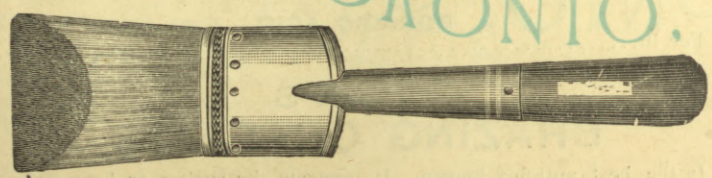
AIR DRYING

	Gals.	Qts.	Pts.	½ pts.	Large Tins.	Small Tins.
Black.....	$1.50	0.45	0.25	0.20	0.18	0.15 each.
"	....	....	....	2.00	1.60	1.35 doz.
Colors.....	....	....	....	....	.30	.20 each.
"	....	....	....	....	3.20	2.00 doz.

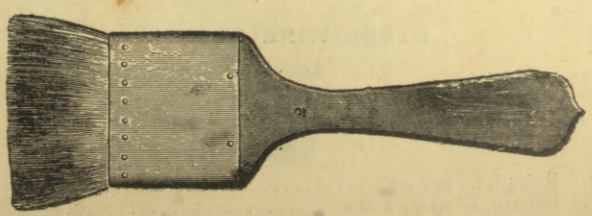
BAKING

Black.....	$1.50	0.50	0.30	0.20	....	.... each.
Colors.....	5.50	1.40	0.75	0.40	....	.... "
Varnish.....	5.50	1.50	0.80	0.45	....	.... "

ENAMEL BRUSHES



Ox Hair, 1-inch, Tin Handles and Caps.....per doz., $4.50



Bear Hair, 1-inch .....per doz., $1.75

This is the Torch included with Oven

Holds 1 gallon; will burn 8 hours.
Also used for burning enamel off frames.
Each, $5.00

No. **1.**—Perfection Hot Blast, made of heavy galvanized iron, **double walls,** 16 inches wide, 28 inches deep, 4 feet 9 inches high. Holds 2 frames, including forks.

With Thermometer and Burner, each, $24.00

No. **2.**—34½ inches wide, 28 inches deep, 4 feet 9 inches high. Holds 5 single frames and forks, weight 150 lbs.

With Thermometer and Burner, each, $36.00

No. **9.**—Electric Hot Blast, galvanized iron, **single walls,** 15 inches wide, 28 inches deep, 3 feet 9 inches high.

With Thermometer and Burner, each, $18.00

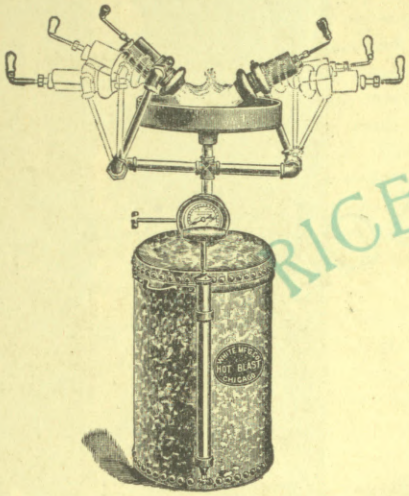
Above also supplied for gas.

CE LEWIS & SO LIMITE TORONTO, ONT

GASOLINE BRAZER AND FORGE

Tanks Tested to 200 lbs. Pressure to the Square Inch.

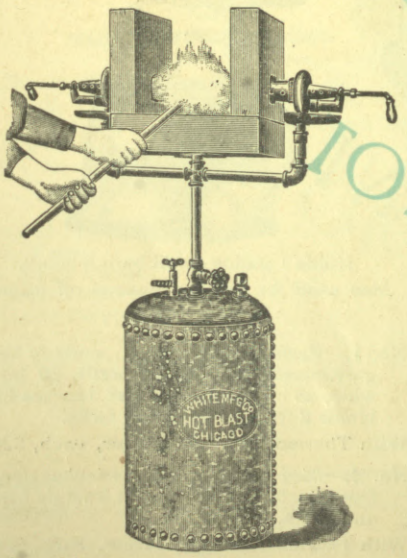
SWIVEL BURNER—Mammoth



Burners adjustable to any angle. Powerful **hot blast,** blue flame, devoid of smoke, capable of **quickly brazing the heaviest bicycle Joint.** Flame easily regulated to any size. Works efficiently with air pressure of 35 to 75 lbs. It is safe, portable, easily operated.

Complete, with gauge and pump, each, $30.00

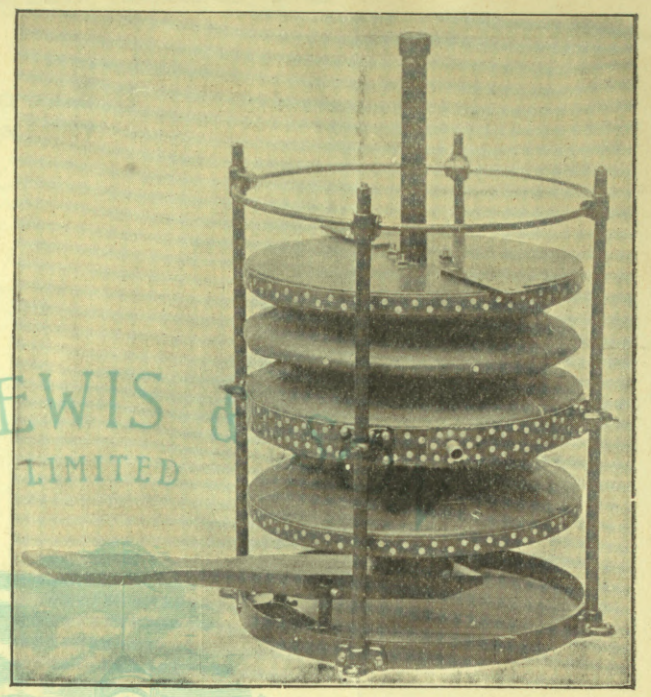
COMBINATION HOT BLAST



Works with pressure of 35 to 75 lbs. Indicator registers 100 lbs. pressure. Generators of special bronze. Burners can be operated independently. Flame easily regulated to any size blast.

Complete with gauge, no pump, each, $25.00

BRAZING BELLOWS



No. **278.** Brazing Bellows.....each, $24.00

BLOWPIPE

No. **276.** Fitted with self-acting and regulating valves and continuous lighting jet. By releasing lever gas valve closes. Quantity of gas consumed can be regulated to suit description of work to be brazed. Each, $7.50.

BRAZING SPELTER

We keep only the very highest grade procurable.

Grain.....per lb., 40c. Strip .....per lb., 40c.

BORAX

Lump.....per lb., 11c. Powdered..... ....per lb., 13c.

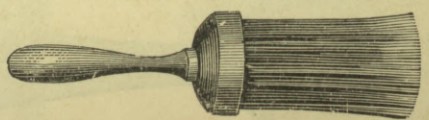
BORACIC ACID

Per lb..... .....20c.

DIXON'S BRAZING GRAPHITE

Is the best anti-flux known. It prevents the spelter or brass from sticking to the work, and saves time and money. No filing is necessary where this is used. Send for sample. Per lb., 50c.

STEEL WIRE BRUSH



No. **1.** Round, as per cut .....each, 50c.
" **2.** Square, 5" wire, 4 row ..... " 50c.
" **3.** Oblong, 3 row, with long bent handle..... " 40c.

PRICE LEWIS & SON LIMITED TORONTO, ONT.

WILEY & RUSSELL BICYCLE SCREW PLATES

FIG. 143 STOCKS 6 IN. AND 22 IN. LONG.

No. X

FIG. 358 STYLE X. STOCK 5¼ IN. LONG

No. O

SET O LIGHTNING STOCK 6 IN. LONG

Per Case

No. 150, Case containing 5 sizes, with Stock, Tap Wrench (fitting in stock), No. 0 Dies, Guides and Taps $8.25
" 152, " " 7 " " " " " 0 " " " 10.50
" 154, " " 10 " " " " " 0 " " " 14.65
" 158, " " 15 " " " " " 0 " " " 20.65
" 143, " " 21 " with 2 Stocks, " " " 0 " " "
consisting of 10 wire gauge sizes and fractional sizes. $\frac{9}{64}^{40}$, $\frac{5}{32}^{36}$, $\frac{3}{16}^{32}$, $\frac{7}{32}^{28}$, $\frac{1}{4}^{24}$, $\frac{5}{16}^{24}$, $\frac{3}{8}^{24}$, $\frac{7}{16}^{24}$, $\frac{1}{2}^{24}$, $\frac{5}{8}^{28}$, $\frac{3}{4}^{28}$, outside diameter of Dies $\frac{5}{16}$ and over, $2\frac{3}{16}$" 40.15
" 133, Case containing Stock 10" long and 7 sizes of Taps, Dies and Guides, $\frac{1}{4}^{24}$, $\frac{5}{16}^{24}$, $\frac{5}{16}^{28}$, $\frac{3}{8}^{20}$, $\frac{3}{8}^{24}$, $\frac{7}{16}^{20}$, $\frac{7}{16}^{24}$, outside diameter of Dies, $1\frac{5}{16}$" 17.25
" 350, Case containing 5 sizes, with Stock, Tap Wrench (fitting in stock), No. X Dies and Taps, outside diameter of Dies $\frac{5}{8}$" 6.60
" 352, Case containing 7 sizes, with Stock, Tap Wrench fitting in stock), No. X Dies and Taps, outside diameter of Dies, $\frac{5}{8}$" 8.90
" 354, Case containing 10 sizes, with Stock, Tap Wrench (fitting in stock), No. X Dies and Taps, outside diameter of Dies, $\frac{5}{8}$" 11.65

REGULAR SIZES OF DIES AND TAPS CARRIED IN STOCK

Wire Gauge sizes ..... Nos. 11^{56}, 12^{48}, 12^{56}, 13^{48}, 13^{56}, 14^{56}, 15^{56}, 16^{56}, 17^{56}
Machine Screw sizes ..... Nos. 2^{56}, 3^{48}, 4^{36}, 6^{32}, 8^{32}, 10^{24}, 12^{24}, 14^{20}, 16^{18}, 16^{20}
Fractional sizes..... Nos. $\frac{5}{64}^{60}$, $\frac{3}{32}^{48}$, $\frac{7}{64}^{44}$, $\frac{1}{8}^{40}$, $\frac{9}{64}^{40}$, $\frac{5}{32}^{36}$, $\frac{11}{64}^{36}$, $\frac{3}{16}^{32}$, $\frac{13}{64}^{32}$, $\frac{7}{32}^{24}$, $\frac{15}{64}^{20}$, $\frac{1}{4}^{20}$, $\frac{17}{64}^{20}$, $\frac{9}{32}^{20}$

No. O PARTS

W. R. No. O STOCK

W. R. No. O DIES AND GUIDE

Patent Elastic Stocks, 6" long ..... each, $1.15
Dies, 1" diameter ..... " .90
Guides ..... " .25
Taps ..... " .40
Cases, 5 sizes, each, 55c.; 7 and 10 sizes..... " .65

Explanation of Dies and Guides supplied in No. O Bicycle Screw Plates—The cut shows a Die and Guide complete; also a Die taken apart to show the mechanism. The cup-headed screw on the right holds the halves together as a hinge, while the size is regulated by the wedge-shaped screw on the left, the Die being clamped in the Elastic Stock. It is readily adjusted without danger of breakage common to Dies open only on one side and solid on the other.

ELASTIC STOCK

ADJUSTABLE DIE

TAP WRENCH

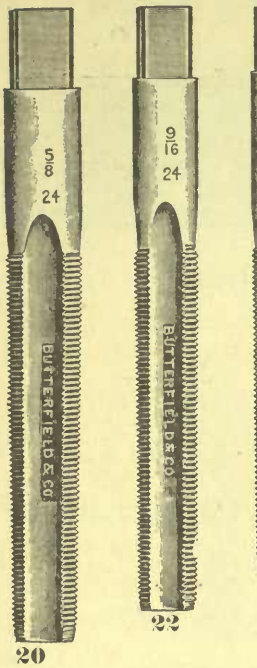
No. X PARTS

PRICES OF SINGLE PARTS

Stock, 5¼" long ..... each, $0.60
Dies, ⅝" diameter ..... " .60
Taps ..... " .40
Tap Wrench..... " .60
Cases, 5 sizes, 55c.; 7 and 10 sizes ..... " .65

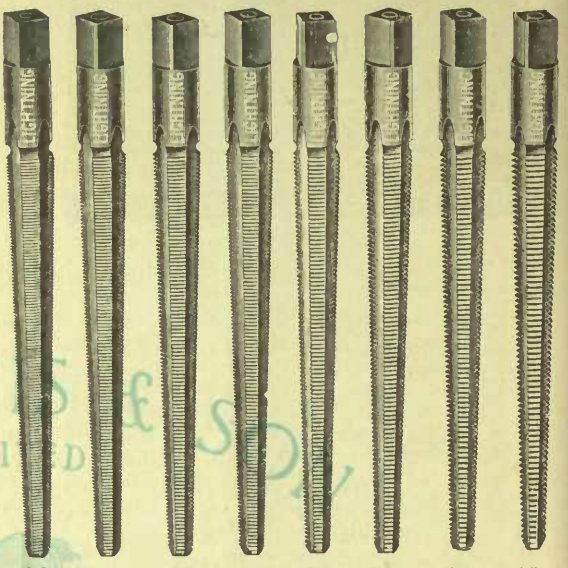
BICYCLE TAPER TAPS FOR REPAIRERS

Butterfield & Co.'s



Diameter ¼, Threads 20 to 32, each $0.45
" 5/16 " 20 to 32 " 0.50
" 3/8 " 20 to 32 " 0 55
" 7/16 " 20 to 32 " 0.60
" ½ " 20 to 32 " 0.70
" 9/16 " 20 to 32 " 0.80
" 5/8 " 20 to 32 " 0.90

The Wiley & Russell Mfg. Co.'s

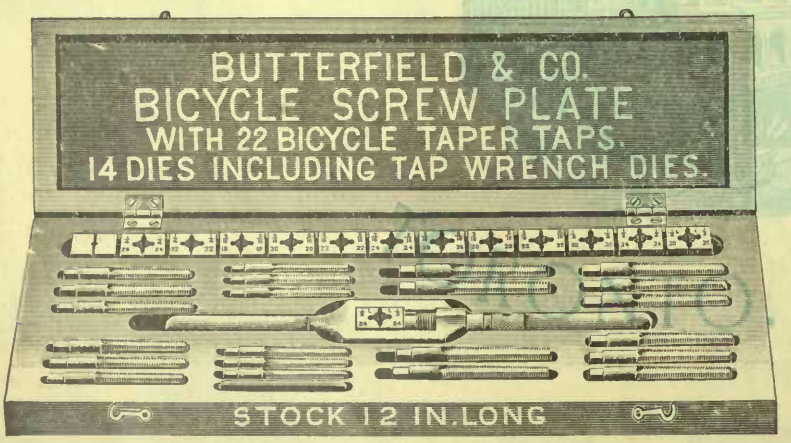


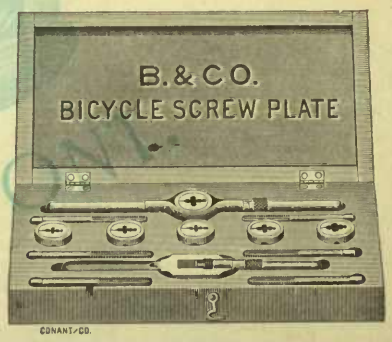
No. 1. Size 7/16, tapering to 15/64, 4 inches long, Threads 18 to 32, each. $1.00
No. 2. Size 9/16, tapering to 3/64, 4 inches long, Threads 18 to 32, each..... 1.30
No. 3. Size, 11/16, tapering to 31/64, 4 inches long, Threads 18 to 32, each..... 1.65

INSIDE AND OUTSIDE CHASERS

Standard Pitched, 3 to 8, each $1.15
Standard Pitched, 9 to 30, each..... .80

B. & CO. BICYCLE SCREW PLATES



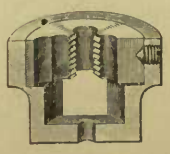


No. 99. Case containing stock 12 inches long, with 14 pairs Dies, ¼ x 24, 32; 5/16 x 18, 20, 22, 24, 26, 28, 32; ½ x 20, 24, Right Hand. ½ x 20, 24, Left Hand. 22 Bicycle Taper Taps ¼ x 20, 22, 24, 26, 28, 32; 5/16 x 20, 22, 24, 26, 28, 32; ⅜ x 18, 20, 22, 24, 26, 28; ½ x 20, 24, Right Hand; ½ x 20, 24, Left Hand. Including one pair of Tap Wrench Dies, per case $20.00

No. 151. Case containing 5 sizes Taps, Dies and Guide, with Adjustable Tap Wrench, per case. $6.30
No. 153. Case containing 6 sizes Taps, Dies and Guide, with Adjustable Tap Wrench, per case.. 7.10
No. 157. Case containing 10 sizes Taps, Dies and Guide, with Adjustable Tap Wrench, per case..10.20

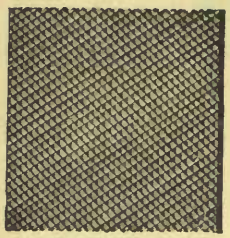
Prices of Single Parts for Sets Nos. 151, 153 and 157

Stock, 6 inches long, each.....$1.00
Dies, ⅝ diameter, each 0.40
Guides for Dies, each..... 0.20
Taps, each..... ..$0.35
Tap Wrench No. 0, each 1.50
Cases, each 0.40

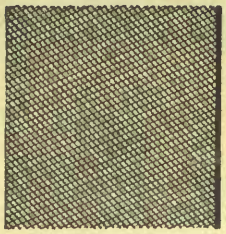


Sectional View of Die and Guide.

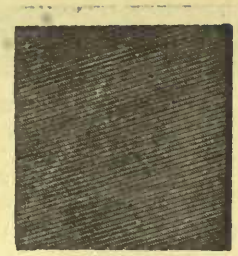
FILES



BASTARD.



SECOND CUT.



SMOOTH.

MILL FILE

JOWITT'S FILE LIST

Size in inches	4	4½	5	6	7	8	9	10	11	12
Flat, half-round, round, square and mill saw bastard	$1.15	1.25	1.40	1.70	2.10	2.60	3.00	3.60	4.35	5.20
Flat and half-round, second-cut and second-cut mill saw	1.35	1.45	1.60	2.00	2.40	2.90	3.25	4.10	4.80	5.75
Flat and half-round, round and square-smooth, cabinet files and rasps	1.65	1.80	2.00	2.30	2.80	3.30	3.75	4.60	5.55	6.40
Flat and half-round dead smooth	2.50	2.70	3.00	3.50	4.20	4.80	5.70	6.85	8.40	9.60
Hand bastard and warding	1.25	1.40	1.50	2.10	2.55	2.90	3.60	4.35	5.20	6.00
Hand smooth	1.80	2.00	2.15	2.75	3.25	3.75	4.60	5.55	6.40	7.20
Knife files, bastard	2.00	2.30	2.55							
Half-round wood rasps						2.60	3.00	3.60	4.35	5.20
Round wood rasps							3.25			

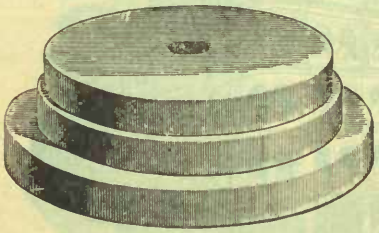
Size in inches	3½	4	4½	5	5½	6	7	8	9	10
Taper saw files	0.95	1.10	1.20	1.35	1.55	1.80	2.30	2.90	3.75	4.70
Band saw files	1.55	1.80	2.05	2.30	2.55	2.90				
Pit or frame saw files			1.40	1.55	1.80	2.05	2.55	3.25	3.85	4.80

EMERY WHEELS

No. **283.**

Diam.	½	¾	1	1½ in. face.
3	$0.80	0.95	1.10	1.40 each
4	1.10	1.35	1.60	2.10 "
6	1.75	2.40	3.00	4.35 "
8	2.60	3.60	4.60	6.60 "
10	3.60	5.10	6.60	9.50 "
12	4.00	5.75	7.35	10.70 "

FELT BUFFING WHEELS



Hard, medium or soft grades.

6 x 1	8 x 1	8 x 1½	10 x 1½ inches.
$1.15	2.30	2.85	4.50 each

EMERY CLOTH

Nos	00	0	½	1	1½	2	2½	3
Per quire ..		$1.00		1.10	1.30		1.40	

EMERY POWDER

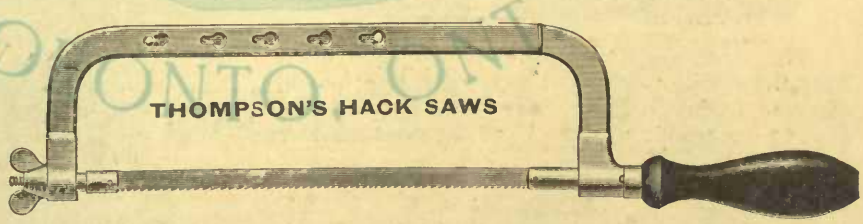
Corn, Nos. 54 to 120 .....per lb., 10c.
Flour..... " 6c

STEEL WOOL

For polishing frames.

	Polishing	Rubbing	Scouring
Nos	0	1	2	3
Per lb....	80c.	66c.	53c.	40c.

THOMPSON'S HACK SAWS

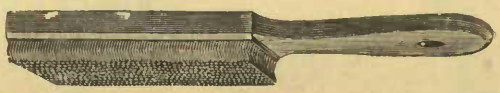


N.P. extension (8-12 ins.) frame, with one blade..... .....each, 1.50
Extra blades, 8", 96c.; 9", $1 ; 10", $1.07 per doz.

EMERY WHEEL DRESSERS

No. 3. Steel Bushing and Arbor.....each, $1.25
Extra Wheels and Washers .....per set, .70

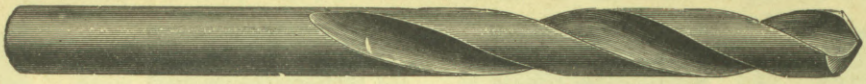
FILE CLEANERS



No. 1. Mounted Cards, 4 x 1½ inches....each, 20c.

WE ALSO CARRY A STOCK OF BLACK DIAMOND, GLOBE, STUBBS' and "GROBET'S SWISS" MAKES OF FILES.

TWIST DRILLS



No. **105**—**STRAIGHT SHANK**

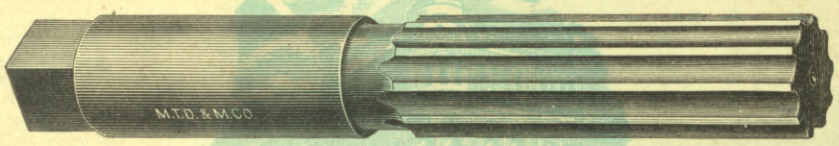
Diameter.....	1/16	5/64	3/32	7/64	1/8	9/64	5/32	11/64	3/16	13/64	7/32	15/64	1/4	17/64	9/32 inch
Length	2 1/2	2 5/8	2 3/4	2 7/8	3	3 1/8	3 1/4	3 3/8	3 1/2	3 5/8	3 3/4	3 7/8	4	4 1/8	4 1/4 "
Price, per doz..	$1 00	1.10	1.20	1.30	1.45	1.60	1.80	2.00	2.20	2.40	2.65	2.90	3.15	3.40	3.65
Price, each.....	$0.09	0.10	0.11	0.12	0.13	0.15	0.16	0.18	0.20	0.21	0.23	0.26	0.28	0.30	0.32

Diameter	19/64	5/16	21/64	11/32	23/64	3/8	25/64	13/32	27/64	7/16	29/64	15/32	31/64	1/2 inch
Length.....	4 3/8	4 1/2	4 5/8	4 3/4	4 7/8	5	5 1/8	5 1/4	5 3/8	5 1/2	5 5/8	5 3/4	5 7/8	6 "
Price, per doz.....	$3.90	4.20	4.50	4.80	5.10	5.40	5.70	6.00	6.40	6.80	7.20	7.50	7.75	8.00
Price, each	$0.35	0.37	0.40	0.42	0.45	0.48	0.50	0.53	0.55	0.59	0.63	0 65	0.67	0.70

No. **109**—**BIT STOCK**

Diameter.....	1/16	3/32	1/8	5/32	3/16	7/32	1/4	9/32	5/16	11/32	3/8	13/32	7/16	15/32	1/2	5/8 inch
Price, per doz..	$1.50	1.65	2.10	2.60	3.10	3.60	4.10	4.70	5.40	6.30	7.20	8.00	8.80	9.60	10.30	16.20
Price, each....	.14	.16	.20	.24	.29	.33	.38	.43	.48	.54	.62	.68	.75	.82	.87	1.35

SOLID REAMERS



No. **116**

Diameter.....	1/4	5/16	3/8	7/16	1/2	9/16	5/8	11/16	3/4	13/16	7/8	15/16	1	1 1/16 inch
Flute, length.	2 3/16	2 1/4	2 3/8	2 7/16	2 9/16	2 5/8	2 3/4	2 3/4	3	3 1/8	3 1/4	3 7/16	3 5/8	3 3/4 "
Price, each ..	$1.95	2.10	2.25	2.40	2.55	2.70	2.85	3.10	3.30	3.50	3.75	4.05	4.35	4.65

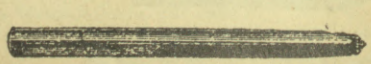
Lightning Taper Reamers

The sizes are arranged to follow each other from the smallest to the largest, so that with a set of these useful tools any size from 3/16 to 1 1/4 inch may be accurately made. Each Reamer leaves a round, true cut hole.

Sizes ...	1/4	5/16	3/8	7/16	1/2	9/16	5/8	11/16
Each...	$0.68	0.75	0.78	0.90	1.05	1.20	1.35	1.58

Sizes ...	3/4	13/16	7/8	15/16	1	1 1/8	1 1/4
Each...	$1.80	2.10	2.40	2.75	3.00	3.38	3.90

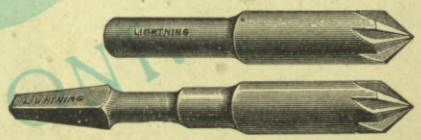
Centre Punches



No. 14. 8/32, 10/32, 12/32, assorted, per dozen..... $1.85

Lightning Countersinks

Round Shanks, 1/2 and 41/64 inch in diameter.



60 or 80 Degrees for Bolt or Screw Heads.

	Each.
No. 500. Regular size, 5/8" diam., 5/8" cut	$0.75
No. 510. Large size, 3/4" diam., 3/4" cut	1.13

Give style of shank and degrees wanted.

New Centre Reamer

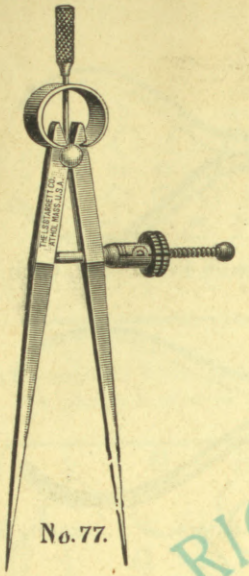
Accurately made of the best steel, and of the most approved form.

No. 530. 1/4" Shank, cuts 3/8, each	$0.38
" 531. 3/8" " " 1/2, "	0.45
" 532. 1/2" " " 5/8, "	0.90

RICE LEWIS & SON LIMITED TORONTO, ONT.

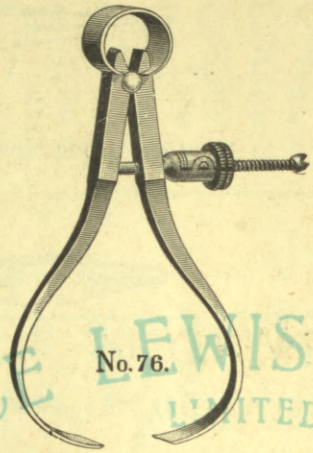
CALIPERS

Dividers



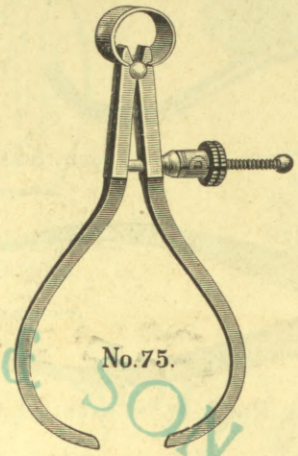
	Solid Nut.	Spring Nut.
3"...	$1.25	1.45
4"...	1.55	1.75
5"...	1.55	1.75
6"...	1.90	2.20

Thread



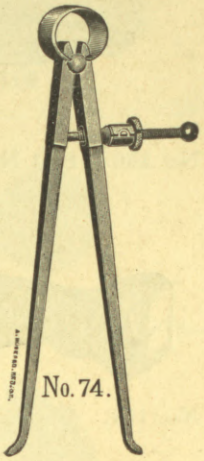
	Solid.	Spring.
3"...	$1.25	1.45
4"...	1.40	1.55
5"...	1.40	1.55
6"...		

Outside



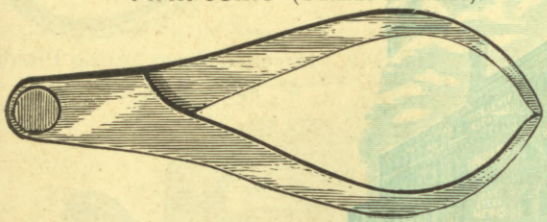
	Solid.	Spring.
3"...	$1.25	1.45
4"...	1.40	1.55
5"...	1.40	1.55
6"...	1.70	1.90

Inside



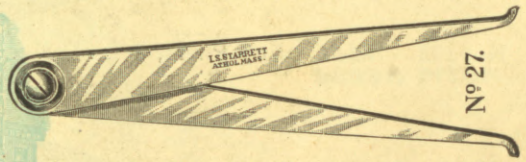
	Solid.	Spring.
3"...	$1.25	1.45
4"...	1.40	1.55
5"...	1.40	1.55
6"...	1.70	1.90

Firm-Joint (Outside or Inside).



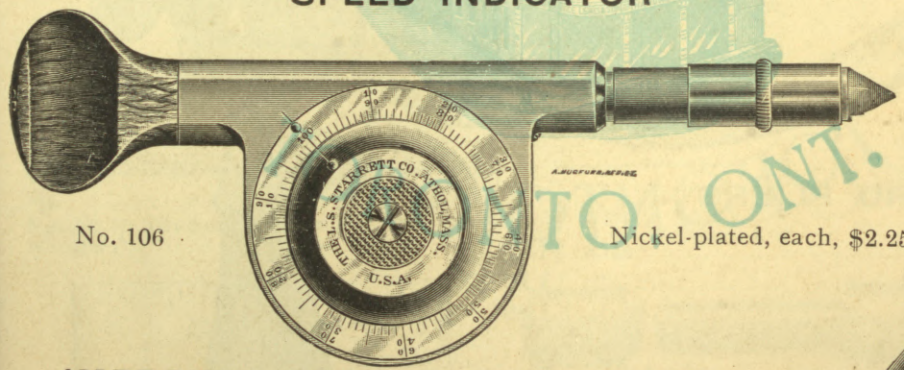
Each ... .3", 25c.; 4", 30c.; 6", 50c.

Improved Firm-Joint (Outside or Inside).



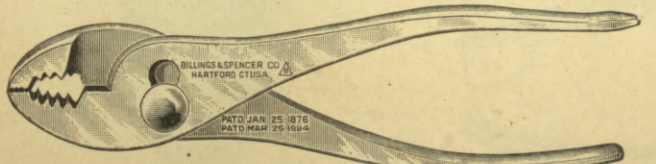
Each .....3", 50c.; 4", 65c.; 5", 70c.; 6", 80c.

SPEED INDICATOR

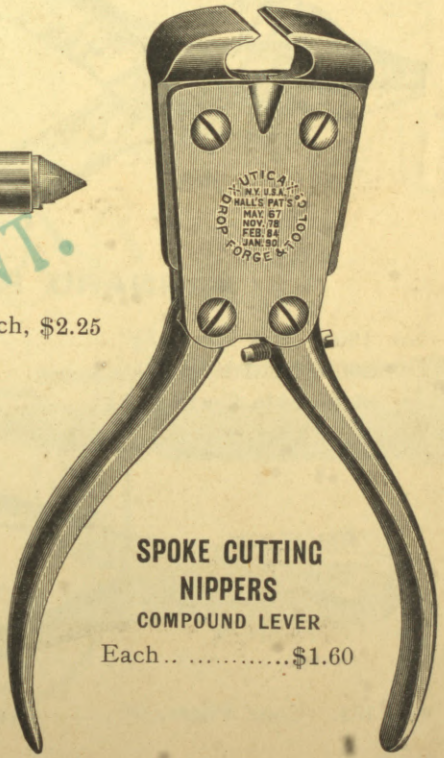


No. 106 Nickel-plated, each, $2.25

IMPROVED COMBINATION PLIERS



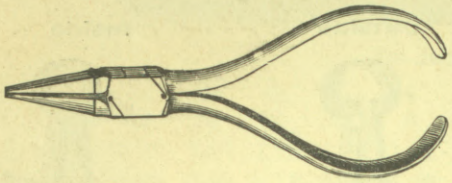
No. 22. 6", Black, per dozen.....$20.25
" 23. 6", per dozen 22.50



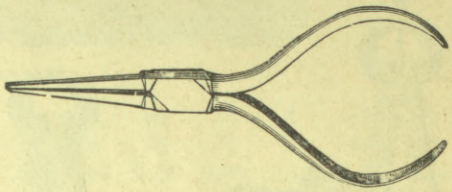
SPOKE CUTTING NIPPERS
COMPOUND LEVER
Each.. .....$1.60

RICE LEWIS & SON LIMITED TORONTO, ONT.

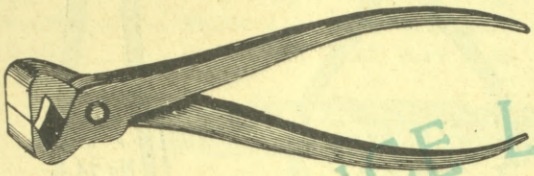
TOOLS



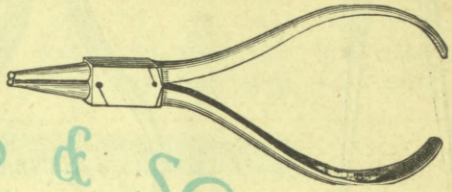
No. 160 Flat Nose Pliers, 6" ..... each, $1.00



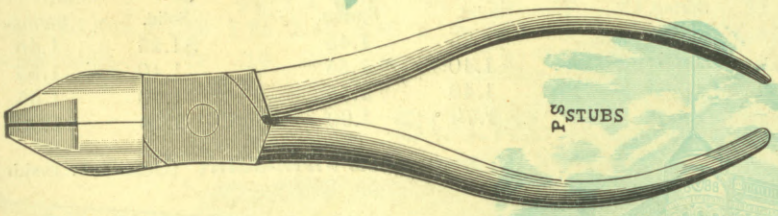
No. 156. Long Nose Patch Pliers, 5¾", each, 85c.



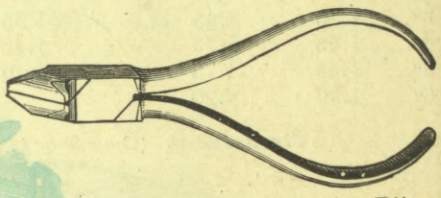
No. 154. Face Cutting Pliers, 6" .....each, $1.45



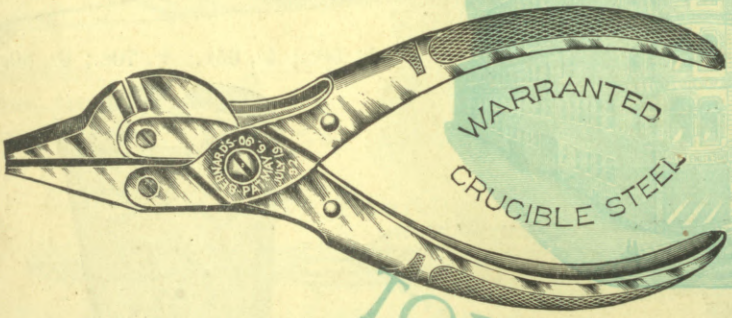
No. 162. Round Nose Pliers, 6".....each, $1.00



No. 153. Side Cutting Pliers, 6" ....each, $1.20

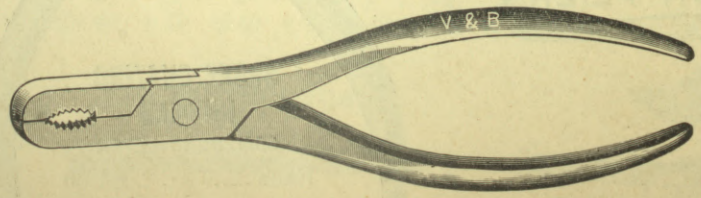


No. 149. Bevelled Face Cutting Pliers, 6", each, $1.45

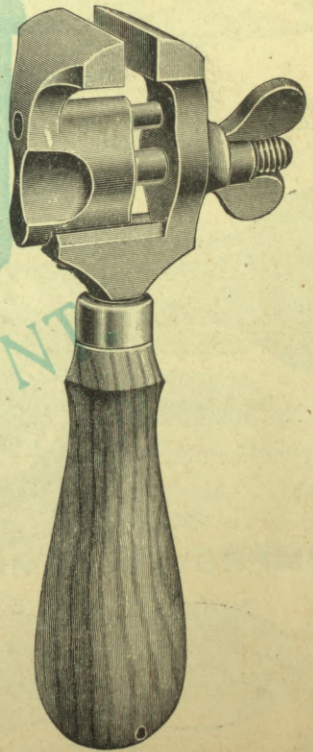


BARNARD PLIERS

No. 100	Flat Nose, 5½"	each.	$1.20
" 200.	Round " 5½"	"	1.20
" 300.	Side Cutting, 5½"	"	1.80



No. 161. Cone Pliers, 6" .....each, $0.55

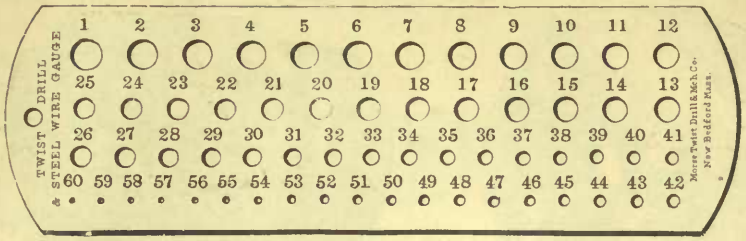


No. 2. Boss Hand Vice, Hardened Steel Jaws, 1¼" wide, each, $1.15

RICE LEWIS & SON LIMITED TORONTO, ONT.

GAUGES

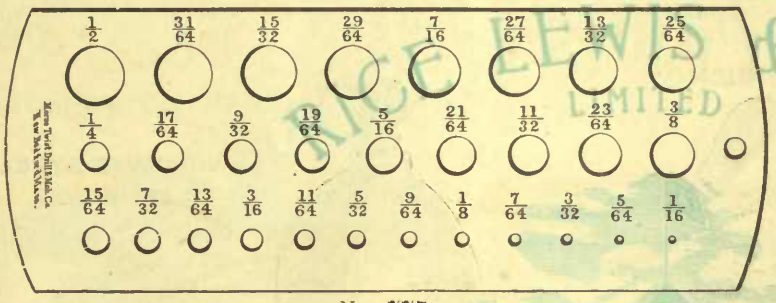
DRILL GAUGES



No. **774**

Gauge numbers from 1 to 60 ....each, $2.25

This gauge is used for measuring Twist Drills and Stub's Steel Rods.



No. **775**

Jobbers' Drill Gauge, sizes from $\frac{1}{16}$ to $\frac{1}{2}$ inch.....each, $4.00

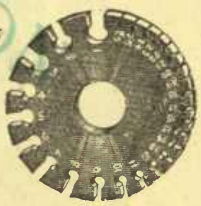
WIRE GAUGES

No. **1110**

Each $3.00

No. **848**

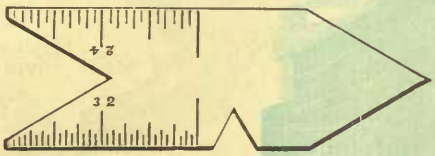
Each $3.50



No. **611**

Each $3.00

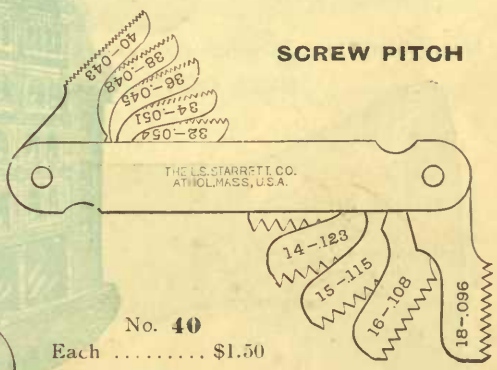
GRADUATED CENTRE GAUGE



Full Size.

Each .....60c.

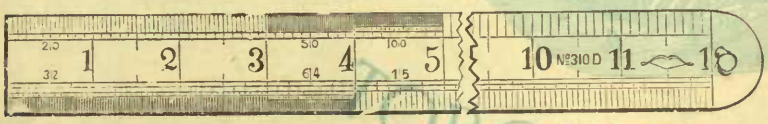
SCREW PITCH



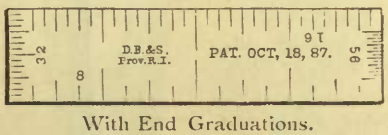
No. **40**

Each $1.50

STEEL RULES



Size	3″	4″	6″	12″
No. 300 D. Graduated on one side... per doz.,	$3.20	3.20	3.60	6.00
No. 326 D. " both sides.. " ..		4.80	5.60	8.00

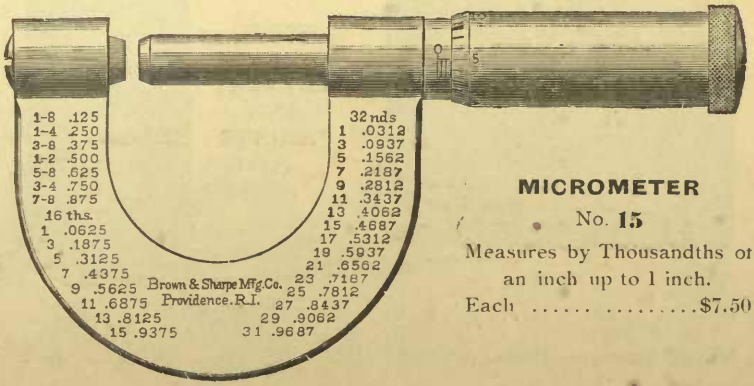


With End Graduations.

Size.....	3″	4″	6″	9″	12″
Each	$0.55	0.70	1.00	1.50	1.90

In this Rule the ends are graduated on one side to 48ths and 100ths, and on the other side, as shown in cut, to 32nds and 56ths of an inch. The 32nds extend entirely across the rule.

The 3-in. Rules are graduated to 40ths instead of 100ths on the end.



MICROMETER

No. **15**

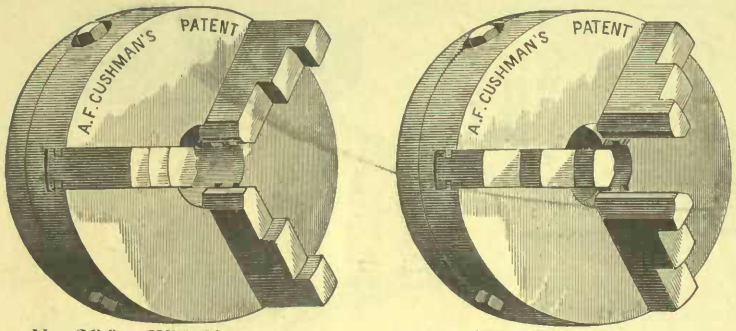
Measures by Thousandths of an inch up to 1 inch.

Each $7.50

RICHARDS & SON LIMITED TORONTO ONT.

TOOLS

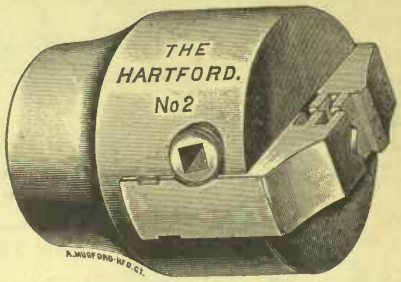
GEARED SCROLL CHUCK



No. **290**. With No. 1 Jaws.
With 1 set Jaws.....each, 3″, $12.50 ; 4″, $15.00 ; 5″, $18.75 ; 6″, $22.50
" 2 sets " ..... " 3″, 15.00 ; 4″, 18.00 ; 5″, 22.50 ; 6″, 27.00

No. **291**. With No 2 Jaws.

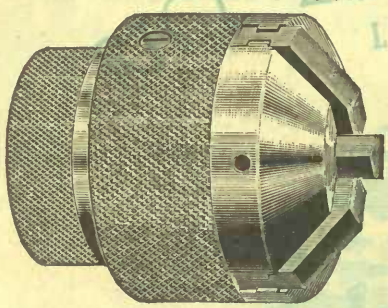
THE HARTFORD DRILL CHUCK



No. **2**. Diameter. 2¾″.

No. 0. Holds from 0 to ¼″.....each, $7.50
" 1. " 0 to ½″..... " 8.75
" 2. " 0 to ¾″..... " 10.00

THE ACME DRILL CHUCK



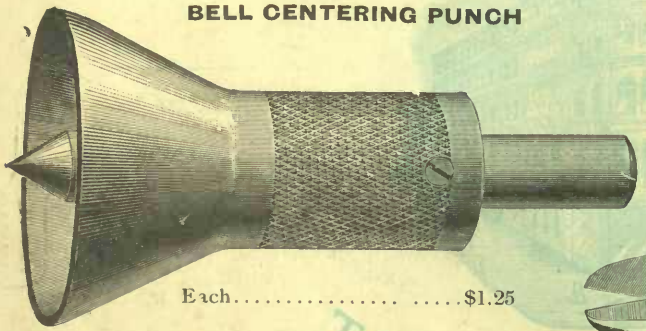
Holds from 0 to ½″ self-tightening, three jaws .....each, $5.00

IMPROVED STEEL LATHE DOG

No. 1, ⅜″....each, $0.35
" 2, ½″.... " .35
" 3, ¾″.... " .50
" 4, 1″.... " .60
" 5, 1¼″.. " .75
" 6, 1½″.. " .85
" 7, 1¾″.. " 1.00
" 8, 2″.... " 1.10

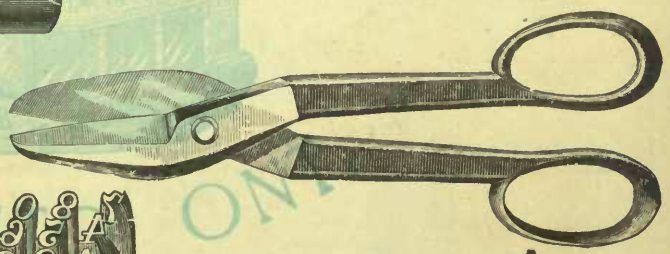
Small set of 8 Dogs, from ⅜ to 2″ 5.50

BELL CENTERING PUNCH



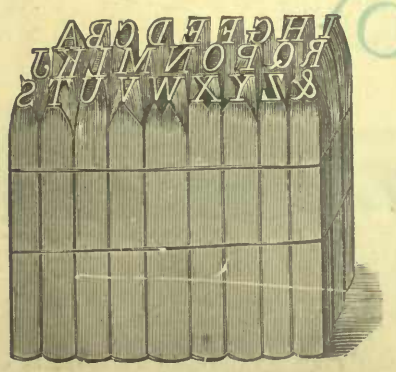
Each..... .....$1.25

METAL SHEARS



No. **8**, Straight cut, 3½″, each. $2.20
No. **9**, Straight cut, 3″, each, $1.65

STEEL MARKING LETTERS AND FIGURES



No. **284**

No. **285**

No. 284. Letters	1/16″, $4.40	1/8″, $4.40	3/16″, $5.40	1/4″, $6.75
" 265. Figures.....	1/16″, 1.50	1/8″, 1.50	3/16″, 1.80	1/4″, 2.25
Name Stamps, per letter,	1/16″, .20	1/8″, .20	3/16″, .30	1/4″, .35

OIL CAN

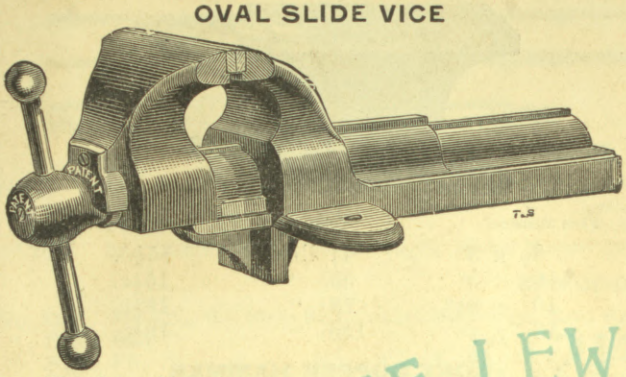
No. **13**
Copper-plated, 3⅜″ dia., 3″ spout.
Each ....40c.

No. **14**
Copper-plated, 3⅜″ dia., 9″ spout.
Each .....50c.

LEWIS & SON LIMITED TORONTO ONT.

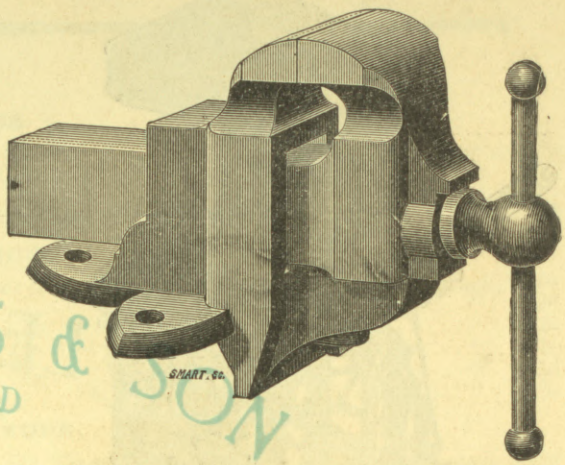
TOOLS

OVAL SLIDE VICE



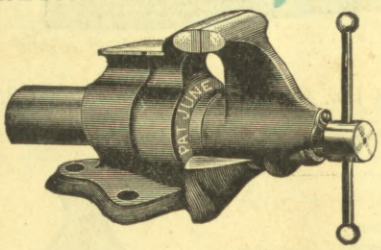
No. 72. Jaws 3″ ..... each, $3.20
" 73. " 3½″ ..... " 4.00

SIMPSON STATIONARY VICE



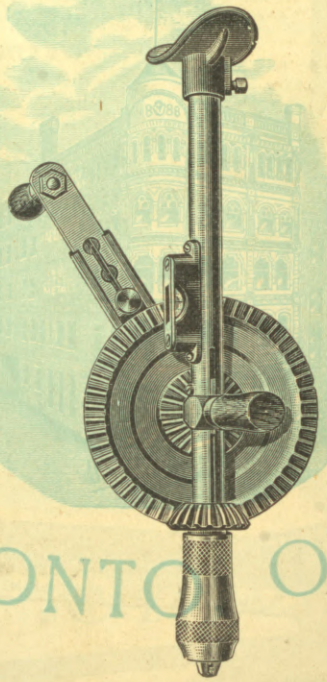
No. 31. Jaws 4″ ..... each, $9.60

MECHANICS' BENCH VICE



No. 24. Jaws 3″ ..... each, $4.65
" 29. " 3½″ ..... " 7.30

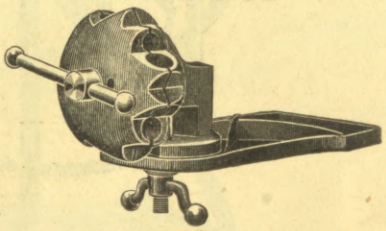
BREAST DRILL



No. **10**

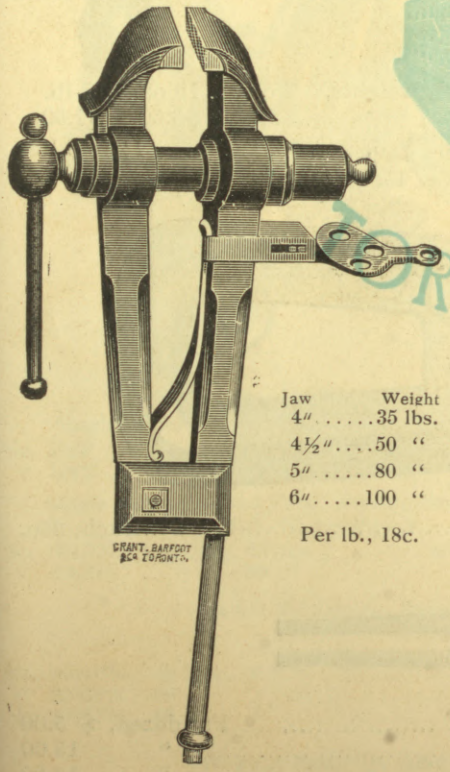
BALL BEARING, nickel-plated Stock and Chuck, will hold both round and square Shank Drills. The Gears are cut, and are changeable from even to 3 to 1. Each, $4.95.

TUBE VICE



Holds Tubing at any angle.
Each $7.67

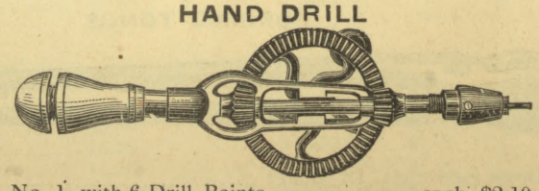
WROUGHT IRON LEG VICE



Jaw	Weight
4″	35 lbs.
4½″	50 "
5″	80 "
6″	100 "

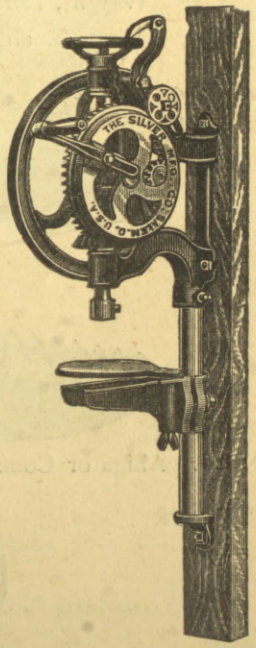
Per lb., 18c.

HAND DRILL



No. 1, with 6 Drill Points ..... each, $2.10
" 2, " 6 " " large size ..... " 4.15

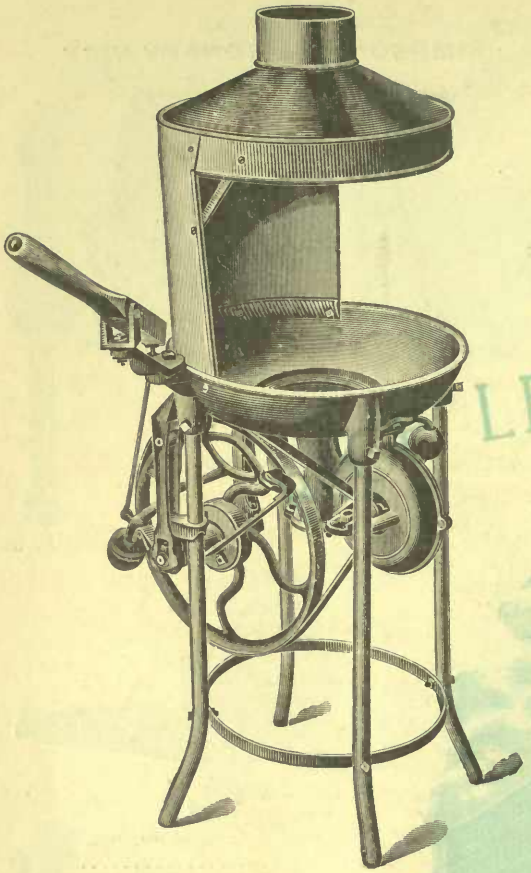
POST DRILL



No. 731 x 1
Each $9.50

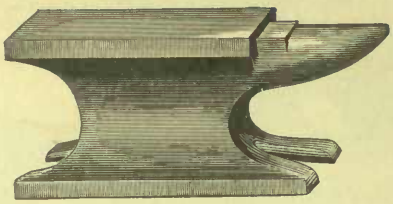
RICE LEWIS & SON LIMITED
TORONTO, ONT.

TOOLS



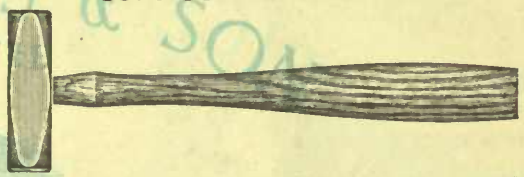
No. 7. Forge, hearth, 18″; height, 30″
Weight, 75 lbs. Half hood.
Each, $23.00.

ANVIL



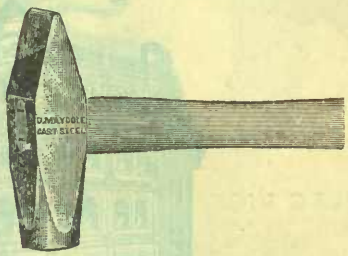
Face Measure.	Weight.	Price per lb.
8½ x 3″	41 lbs.	15½c.
10 x 3″	55 “	15½c.
10 x 3½″	78 “	15½c.
13 x 4″	136 “	13½c.

SOFT COPPER HAMMER



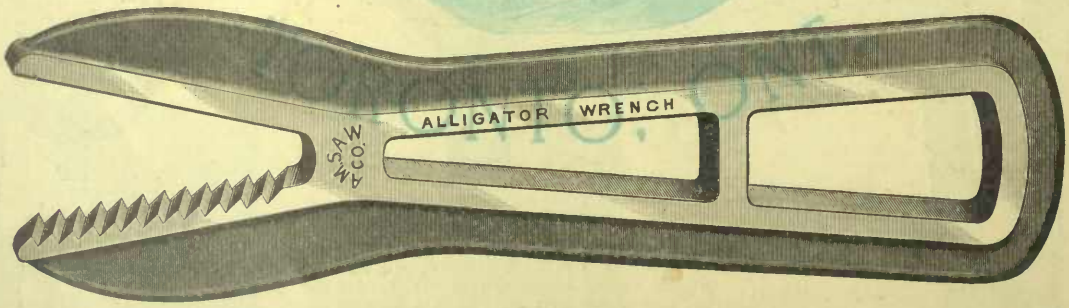
1 lb., each $1.15; 1½ lbs. ea., $1.35; 2 lbs. ea., $1.65.

RIVETING HAMMER



BALL PEIN

Riveting Hammers, weights,	7 oz.,	13 oz.	1⅛ lb.	
Per doz.....	... .	...$5.50.	$6.50.	$7.50.
Machinists' Hammers, weight,	½ lb.	¾ lb.	1 lb.	1¼ to 3 lbs.
Per lb.....	45c.	30c.	30c.	25c.

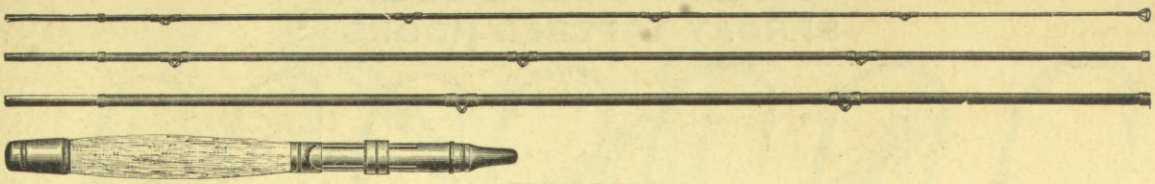


No. 1. Alligator Cone Wrench, 5¾ inches long..... .....Each, 35c.

FORGING TONGS

Heller Bros., Forging Tongs (see cut), 12 to 17″ ....Per dozen, $ 5.00
No. 1 Stearns, Straight, Swivel Jaw Blacksmith Tongs 16″..... ... “ 15.00
No. 2 “ “ “ “ “ “ 18″..... ... “ 15.00

FISHING RODS



STEEL RODS

No. 4.	Brass Rod, 10 feet in length, Nickel Mountings, Cork Grip	each, $8.50
" 4A.	" 10 " " " " Celluloid Grip	" 7.70
" 8.	Fly Rod, 10 " " " " Cork Grip	" 8.50
" 17.	Bait Casting Rod, 7 feet in length, Nickel Mountings, Cork or Cane Wound Grip	" 10.00

BAMBOO RODS

No. D12.	Fly Rod, Six Strip Rod, Nickel Mountings, Solid Reel Seat, Cork Grip, 9½ to 10 feet	each, $4.65
" D15.	Bait " " " " " " " " 9½ " 10 "	" 4.65
" N12.	Fly " " " " " " " " 9½ " 10 "	" 2.75
" N15.	Bait " " " " " " " " 9½ " 10 "	" 2.75
" 12.	Fly " " " " " " " " 9½ " 10 "	" 1.75
" 15.	Bait " " " " " " " " 9½ " 10 "	" 1.75

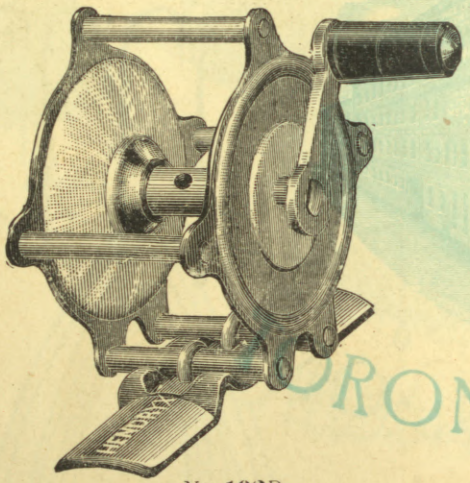
GREENHEART RODS

No. 36¼.	Fly Rod, Solid Reel Seat, Improved Shouldered Ferrules, Silk Wrappings, Scored Wood Grip, 10 feet,	each, $3.50
" 46¼.	Bait " " " " " " " " " " 10 " "	" 3.50

LANCEWOOD RODS

No. X85.	Fly Rod, Full Nickel Mounted, Raised Ferrules, Silk Whippings, Scored Grip, 10 feet	each, $2.05
" X95.	Bait " " " " " " " " " " 10 "	" 2.05
" 495.	Combination Rod, 3-Joint Heavy Bait Rod, 10½ feet, weight 15 ounces, or a 2-Joint Trolling Rod, 7 feet, weight 13 ounces, Full Nickel Mountings, Solid Reel Seat, Silk Wound Tee Guides, Celluloid Grip above and below Reel Seat	" 4.05

FISHING REELS



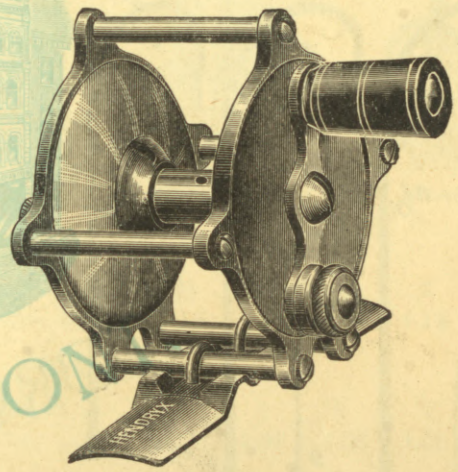
No. **102**P.

Single Action, Raised Pillar, Rivet Brass Reel.

No. 102P.	Capacity 25 yds	per doz., $1.70
" 106P.	" 60 "	" 2.25

Single Action, Raised Pillar, Riveted Brass Reel, with Click, Nickel-Plated.

No. 204PN.	Capacity, 40 yds	per doz., $3.40
" 206PN.	" 60 "	" 3.70



No. **00304**

Single Action, Raised Pillar, Screwed Brass Reels, with Flush Balance Handle and Back Sliding Click, Nickel-plated.

No. 00304PN.	Capacity 40 yds	per doz., $6.85
" 00306PN.	" 60 "	" 7.45
" 00307PN.	" 80 "	" 8.00

Double Multiplying, Raised Pillar, Balance Handle, Screwed Brass Reel, with Patent Adjustable Slide Drag, and Back Sliding Click.

		Per dozen
No. 2904PN.	40 yds., N.P.	$9.60
" 2906PN.	60 " "	10.50
" 2907PN.	80 " "	11.40

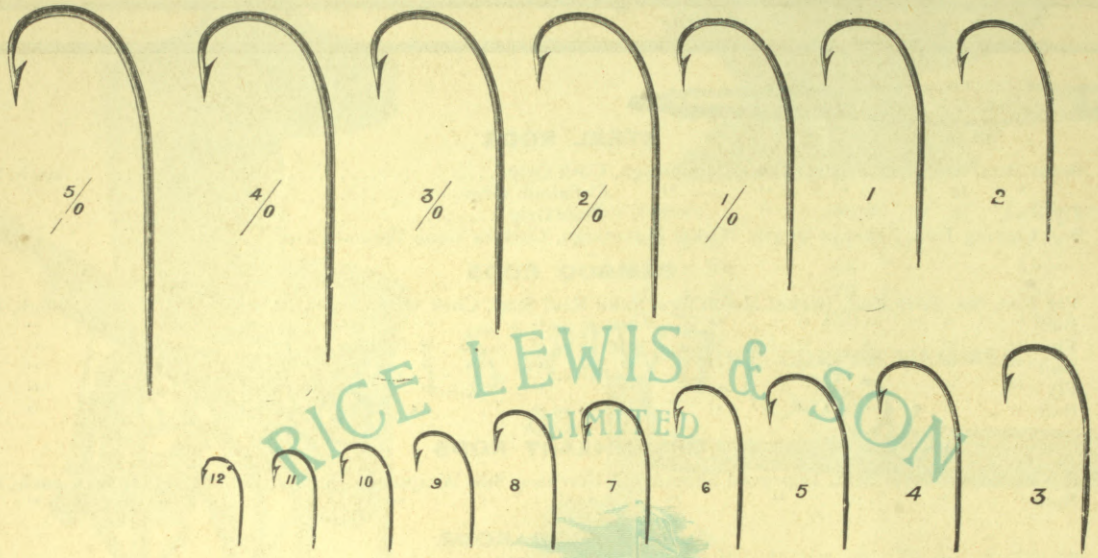
		Per dozen
No. 002904PN.	40 yds., N.P., with Rubber Cap	$12.00
" 002906PN.	60 " " " " "	13.00
" 002907PN.	80 " " " " "	14.00
" 002908PN.	100 " " " " "	15.50

If you deal in above, write for our Sporting Goods Catalogue.

RICE LEWIS & SON LIMITED TORONTO, ON

FISH HOOKS

SPROAT TAPERED HOOKS



RICE LEWIS & SON LIMITED

No. **2544**

Size Nos	12 to 1	1-0	2-0	3-0
No. 2544 .....per 1000	$1.15	1.45	1.65	1.90

CARLISLE FISH HOOKS

TORONTO, ONT.

No. **2613**

Size Nos.	12 to 1	1 0	2 0	3 0	4-0	5-0	6-0
No. 2613 —Ringed .....per 1000	$1.00	1.25	1.45	1.70	1.95	2.15	2.25
" 2614½—Marked..... "	1.00	1.25	1.45	1.70	.....	.....	.....

KIRBY AND LIMERICK FISH HOOKS, RINGED

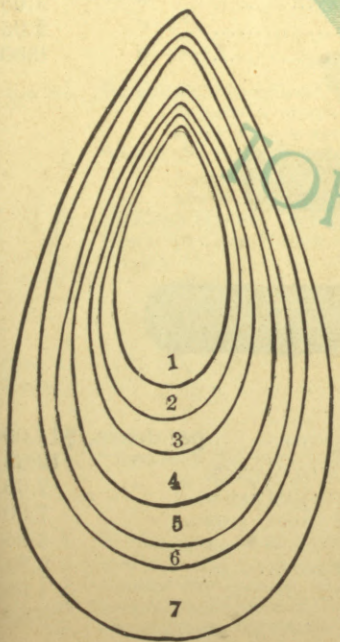
Size Nos.....	12 to 1	1-0	2 0	3-0	4-0	5-0	6-0	7 0	8-0	9-0	10-0
No. 1939—**Kirby** bend...per 1000	$0.63	0.80	1.00	1.15	1.30	1.50	1.90	2.45	3.20	4.15	5.00
" 1937—**Limerick**..... "	0.63	0.80	1.00	1.15	1.30	1.50	1.90	.....	.....	.....	.....

One hundred in a box.

If you deal in above, write for our Sporting Goods Catalogue.

TROLLING BAITS

RICE LEWIS & SON LIMITED TORONTO ONT.



Scale for sizes of Spoons

FLUTED

Size Nos.	4	4¾	5	6	7	8
Fluted Bait, nickel-plated, per doz.,	$1.15	1.15	1.15	1.15	1.15	1.15

PICKEREL

Size Nos.	4	5	6	7
Pickerel Bait, nickel-plated .....per doz ,	$1.05	1.05	1.05	1.05

COBOURG

Size Nos.	3	4	5	6	7	8
Cobourg Bait, nickel-plated, per doz.,	$1.25	1.25	1.25	1.25	1.25	1.25

DIAMOND C.

Size Nos.	3	2	1	1-0
Diamond C., nickel-plated, gold end.....per doz.,	$4.00	4.00	4.00	4.70

ALLURE

Size Nos	3	2	1	1-0	2-0
Allure Bait, nickel and brass .....per doz.,	$7.40	7.40	7.40	8.10	8.10

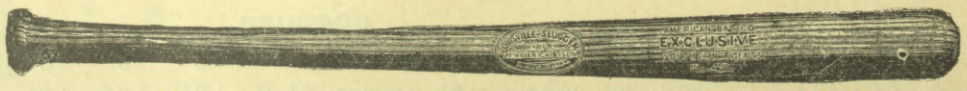
If you deal in above write for our Sporting Goods Catalogue.

BASE BALLS

No. 1.	League Ball adopted by Western Association	per dozen,	$20.60
" 0.	" Double Seamed Ball," Double Stitched, warranted to last a full game	"	20.60
" 20.	Regulation Size and Weight, a first-class ball	"	10.80
" 30.	" " Horsehide Cover	"	8.10
" 40.	" " " " and well made	"	5.40
" 50.	" " " "	"	2.70
" 60.	" " good Boys' ball	"	1.65
" 70.	" Rattler," Boys' ball	"	1.05
" 80.	" Boss," "	"	0.60

BASEBALL BATS

No. 3A



LOUISVILLE SLUGGER

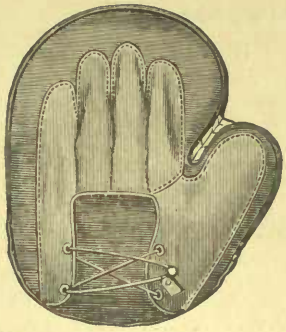
Louisville Slugger,	best selected Ash, well balanced and finished	per dozen,	$14.00
No. 3-O.	Highest grade Ash, thoroughly seasoned, well balanced and finished	"	12.85
" 1A.	Extra quality Ash, Antique Finish, highly polished	"	7.00
" 1C.	Finest selected English Willow, highly finished	"	7.00
" 2A.	Excellent quality Ash, carefully selected, highly polished	"	3.85
" 3A.	Extra " " Antique Finish, best Boys' bat made	"	3.85
" 7	Ash, highly polished, red end, length 30 inch	"	1.50
" 9.	" " " " 26 "	"	0.80

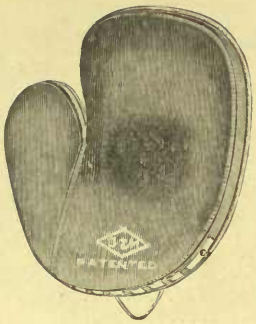
If you deal in above, write for our Sporting Goods Catalogue.

TORONTO, ONT.

BASEBALL MITTS

No. **99**





No. **92**

No. **32X**

No. 99.	Professional Catchers' Mitts, with patent rubber finger guard, padded with best asbestos padding, patent lacing, best coltskin	each,	$8.00
" 98.	Same as No. 99, but a little smaller	"	6.00
" 91.	" " 98, but made of asbestos calfskin	"	5.35
" 100.	" " 98, with reinforced patch in palm, without the patent finger protector	"	2.70
" 92.	Mouse color coltskin, with patent lacing	"	2.00
" 93.	" " " without lacing	"	1.60
" 80.	Gold tan leather back, "Youths' large size"	"	.70
" 101.	" canvas back, "Boys' large size"	"	.40
" 45.	Baseman's Mitts, drab colored coltskin, very flexible	"	2.70
" 43.	" " " " palm, red leather back	"	2.00
" 42.	" " Craven tanned leather	"	1.00
" 41.	" " yellow leather	"	.80
" 32X.	" Gloves, mouse colored buckskin, padded palm	"	4.00
" 7X.	" " drab colored coltskin "	"	2.70
" 29.	" " " " "	"	1 60
" 3X.	" " drab chrome tanned leather	"	1.00

INFLATED BODY PROTECTOR

No. 1.	League Catchers' Protector	each,	$15.15
" 1A.	Amateur " "	"	9.50
" 1B.	Boys' " "	"	8.20

CRICKET BATS

No. A1.	Patent Double-spliced, Spring-Handle Bat, thoroughly seasoned, hand hammered, edges and face hardened in such a manner that the wood is still in possession of its natural elasticity, accurate in balance, specially selected and stamped "Arthur Shrewsbury"	each,	$7.80
" 1.	"Specially Selected" Match Bat, are made with very best rattan canes, the joints are fitted in an improved manner which gives them enormous strength and a splendid spring, while "jarring" is entirely obviated, and the hardest hit can be made without feeling the slightest sting	each,	$5.95
" 2A.	All Cane Handle Club Bat, selected, special line for club use	"	3.75
" 4.	Men's All Cane Handle Bats, not stamped	"	2.50
" 3.	Youths' " "	"	2.20
" 6.	" " " selected	"	2.60

YOUTHS' POLISHED BATS

Nos	01	04	05	06	07
Each	$0.50	0.85	1.00	1.15	1.30

CRICKET BALLS

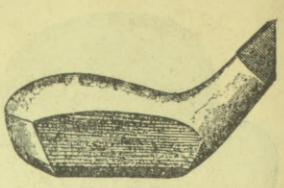
No. 1A.	"Specially Selected," Treble-Sewn, Match Balls, warranted hand-made, regulation size and weight, as used in all matches played by the Earl of Sheffield's team in Australia, also the great matches in England, including England and Australia. Highly recommended by Dr. W. G. Grace and the leading English bowlers	each,	$2.50
" 3.	Treble sewn, hand made, strongly recommended, a really first-rate practice ball	"	2.10
" 5.	Double seam, hand made, regulation size and weight, a good sound ball, will stand a lot of wear	"	1.90
" 9.	Youths' two-seamed, hand made, small red, halves	"	.95
" 10.	Youths' three-seamed, hand made, large red, halves	"	1.40
" 05.	Composition, regulation size, good practice ball	"	.40

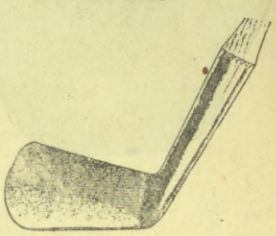
If you deal in above write for our Sporting Goods Catalogue

ROWLEY, LEWIS & SON LIMITED TORONTO, ONT.

GOLF STICKS

SIMPSON'S





WOOD CLUBS

Bulger Drivers	each,	$2.40
Bulger Driver Brassies	"	3.00
Drivers	"	2.20
Mid Spoons	"	2.20
Brassie Niblics	"	2.75
Brassie Spoons	"	2.75

IRON CLUBS

Cleeks	each,	$2.75
Putting Cleeks	"	2.75
Irons	"	2.75
Mashies	"	2.75
Gun Metal Putters	"	3.00

EXTRA HEADS AND SHAFTS

Heads for Bulger Drivers	each,	$1.45
" " Brassies	"	2.00
Heads for Cleeks	"	1.75
Shafts for any style of Head	"	1.00

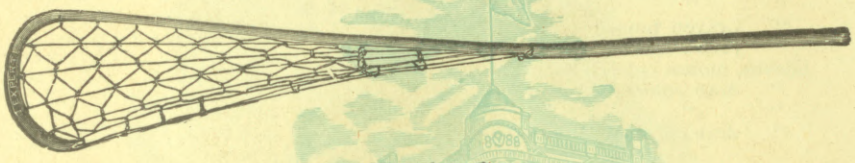
We also keep in stock a nice assortment of Clubs, made specially for Ladies' use, at same prices as above.

GOLF BALLS

"The Edinburgh," Regulation size. This Ball is used by all the leading Clubs ..... per dozen, $5.25

RICE LEWIS & SON LIMITED

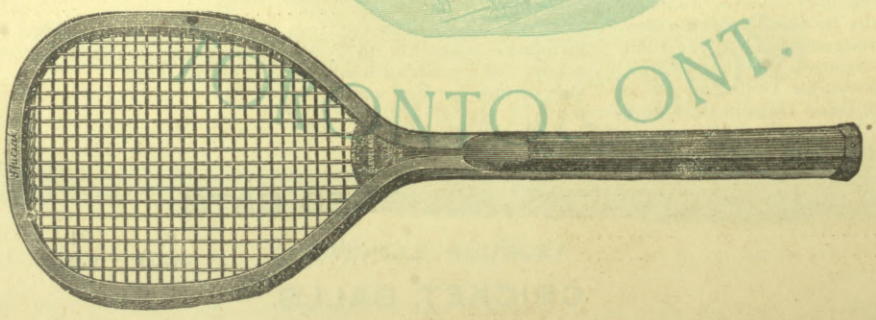
LACROSSE STICKS



Nos. 4 to 7

No. 1.	3 ft. 10 in. in length, Best White Hickory and Finest Line Strings	per doz.,	$8.45
No. 2.	4 ft., same as No. 1	"	9.85
No. 4.	4 ft. 6 in., Practice Stick, 16ths to the dozen, made of the Best White Hickory and Fine Line Strings	"	16.90
No. 6.	4 ft. 4 in., Home Stick, same in every way as No. 4	"	15.50
No. 6½.	Same as No. 6, only Left Hand	"	15.50
No. 12.	4 ft. 6 in., Professional Stick, Best Selected Hickory, and strung with Best Syor Strings	"	21.10
No. 13.	Same as No. 12, only Left Hand	"	21.10
No. 14.	4 ft. 6 in., C.L.C. Stick, Choicest White Hickory, strung with Syor Strings, with Clock Cord in [redacted] Wearing Parts	"	28.15
No. 15.	Same as No. 14, only Left Hand	"	28.15
LACROSSE BALLS,	made of Best Soft Pure Rubber	"	4.30

LAWN TENNIS RACKETS



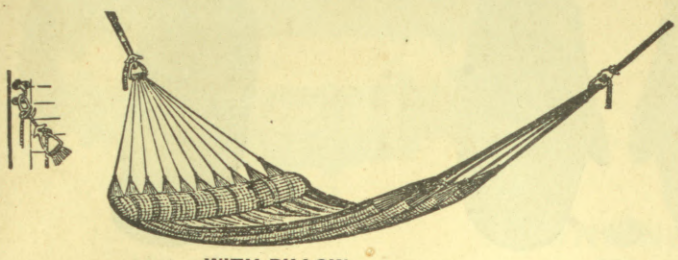
Assorted Weights, 10½ to 15 ounces.

Bristol, White Ash Frames, strung with Oriental Gut	each,	1.85
Cleveland, " " " "	"	2.45
Standard, " " " " Full Size, High Grade	"	3.25
Eclipse, Best " " " " " "	"	4.00
Horseman, Best " " " " Tournament Strung, Scored Handle	"	5.00
Ladies' Special, Best White Ash Frames, strung with Oriental Gut, Scored Handle	"	5.00
LAWN TENNIS BALLS. No. 1, College Championship, Regulation Size	per doz.,	4.25

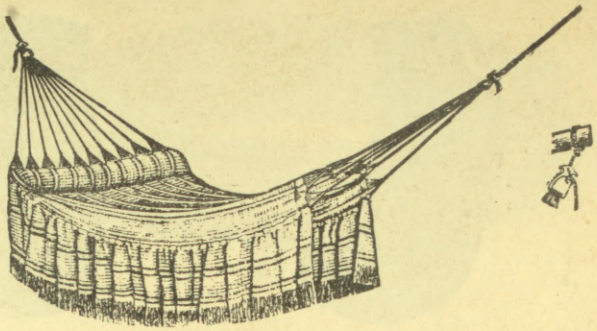
TORONTO ONT.

If you deal in above, write for our Sporting Goods Catalogue

HAMMOCKS



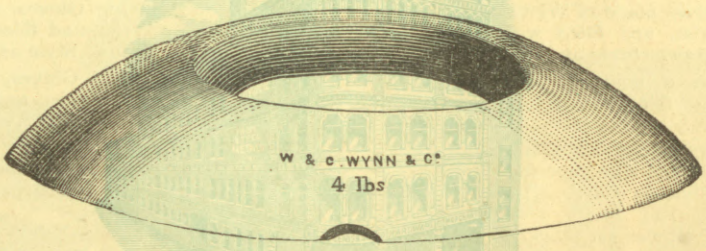
WITH PILLOW



WITH VALANCE

					PER DOZ.
No. A1.	Quarter	Color,	34 x 70″,	Open Weave	$11.70
" B2.	"	"	36 x 76″,	" one Patent Wood Spreader	14.50
" B4.	"	"	36 x 76″,	" Spreader and Pillow	18.00
" B5.	Full	"	36 x 76″,	" " and Valance	30.00
" E4.	"	"	36 x 76″,	Combination Weave Spreader and Pillow	25.00
" E5.	"	"	36 x 76″,	" " Pillow and Valance	37.00
" G5.	"	"	40 x 78″,	Twilled " " " "	51.00
" K4.	"	"	41 x 78″,	Open " " and Pillow	29.50
" NE4.	"	"	36 x 76″,	Corded " " Stretcher and Pillow	28.00
" NE5.	"	"	36 x 76″,	" " " " Pillow and Valance	40.00
" P5.	"	"	40 x 78″,	" " Pillow and Valance	50.00

QUOITS



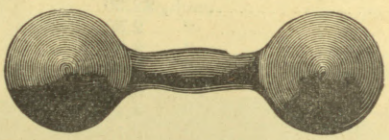
London Pattern, Superior Wrought Steel, Hardened and Polished.

Weight per pair	4	5	6	7	8	10	12	14	16 lbs.
Per pair	$1.90	2.35	2.75	3.20	3.60	4.90	7.00	8.50	10.20

MALLEABLE IRON QUOITS

Weights, 3, 4, 5, 6, 7, 8, 10 lbs. each ..... per lb., $0.12

DUMB-BELLS



IRON

Weights, 1½, 2, 3, 3½, 4, 4½, 5, 6, 7, 8, 9, 10, 12, 14 lbs.
Per lb. $0.08

WOOD

Made of Selected Maple, Oiled, Lathe Polished.

Weights...	½	¾	1	1½	2	2½	3 lbs.
Per pair...	$0.20	0.28	0.30	0.40	0.50	0.60	0.70

PITCHING SHOT

Weights, 10 to 50 lbs. ..... per lb., $0.08

INDIAN CLUBS

Made of Selected Maple, Oiled, Lathe Polished, well shaped and balanced.

Weights...	¾	1	1½	2	3	4	5	6 lbs.
Per pair	$0.25	0.35	0.40	0.50	0.60	0.90	1.00	1.15

If you deal in above, write for our Sporting Goods Catalogue.

RICE LEWIS & SON LIMITED TORONTO, ONT.

BOXING GLOVES

No. **020**

No. **032**

No. **024**

Per set.

No. 02 —Boys' Boxing Gloves, made of Gold Tan Kid, Elastic Wrist, and filled with Curled Hair. Style as 024 ..... $1.75

" 07 —Boys' Boxing Gloves, made of White Kid, Elastic Wrist, filled with Curled Hair Style as 024 ..... 1.90

" 02X—Boys' Boxing Gloves, made of Gold Tan Kid, Elastic Wrist, and filled with Curled Hair. Style as 020 ..... 2.40

" 03— Boys' Boxing Gloves, made of Wine Colored Kid, Elastic Wrist, and filled with good quality Curled Hair. Style as 024 ..... 2.40

" 03X—Boys' Boxing Gloves, made of Wine Colored Kid, Elastic Wrist, and filled with good quality Curled Hair. Style as 020 ..... 2.70

" 04 —Men's Boxing Gloves, made of Wine Colored Kid, Elastic Wrist, and filled with good quality Curled Hair. Style as 020 ..... 4.00

" 07X—Boys' Boxing Gloves, made of White Kid, Elastic Wrist, and filled with Curled Hair. Style as 020 ..... 2.40

" 013 —Men's Boxing Gloves, made of Benton Tan Kid, Laced, and filled with superior quality Curled Hair. Style as 024 ..... 5.35

Per set

No. 013X—Men's Boxing Gloves, made of Benton Tan Kid, Laced, and filled with superior quality Curled Hair. Style as 020 ..... $6.00

" 020 —Men's Boxing Gloves, made of fine imported Colored Kid, fac-simile in style of the gloves used at the Corbett-Mitchell contest at Jacksonville. Laced, and filled with the finest quality of Curled Hair 8.00

" 024 —Men's Boxing Gloves, made of Benton Tan Kid, Gold Tan Palm, California Thumb, Padded Wrist, Laced, and filled with a superior quality Curled Hair 5.35

" 026 —Men's Boxing Gloves, made of White Kid, Elastic Wrist, and filled with good quality Curled Hair. Style as 020 ..... 3.35

" 027 —Men's Boxing Gloves, made of White Kid, Elastic Wrist, and filled with good quality Curled Hair. Style as 024 ..... 2.40

" 030 —Men's Boxing Gloves, Made of Gold Tan Kid, Elastic Wrist, and filled with Curled Hair. Style as 024 ..... 2.40

" 030X—Men's Boxing Gloves, made of Gold Tan Kid, Elastic Wrist, and filled with Curled Hair. Style as 020 ..... 3.00

The better quality of Gloves are stocked in 6 and 8 ounces. 8 ounces will be sent unless weight is specified.

STRIKING BAG GLOVES

No. 034—Oil Tan, Padding in Back ..... per pair, $0.80
" 032—Wine Color Padding in Back, with Hand Bar in Palm ..... " 1.35

STRIKING BAGS

DOUBLE LOOP

Complete with Bladders. Double Loop and Rubber Cord.

No. 81XB—Oil Tan Yellow Bag, 27 inch ..... each, $2.30
" 81X — " " 30 " ..... " 2.50
" 81 —Lined Oil Tan Yellow Bag, 30 inch ..... " 2.90
" 84 — " " " 30 " Double Seamed ..... " 3.10
" 65 —Lined Craven Tan Dark Bag, 30 " Welt " ..... " 3.75
" 82X — " " " 30 " Double " ..... " 4.45
" 86 —Lined Green Tan " 32 " Welt " ..... " 5.15
" C —Best Grained Leather Bag, 30 " Hand Sewed ..... " 3.40
" C — " " " 32 " " ..... " 4.40

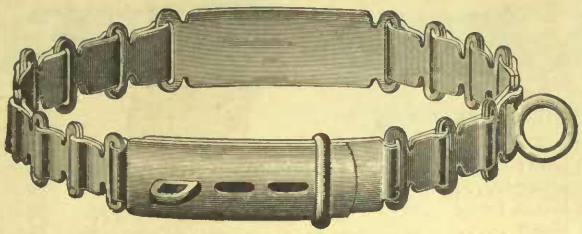
Single Loop, for using with Platform.

No. 81—Lined Oiled Tan Yellow Bag, 30 inch ..... each, $2.25
" 25— " Craven Tan Dark " 30 " with Seam ..... " 3.10
" 86— " Green Tan " " 32 " " ..... " 4.50
" 83— " " " " 32 " Double Seam ..... " 6.20
" C —Best Grained Leather " 30 " Hand Sewed ..... " 2.75
" C— " " " 32 " " ..... " 3.75

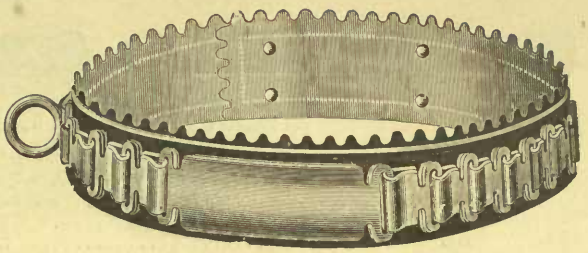
SINGLE LOOP

If you deal in above write for our Sporting Goods Catalogue

DOG COLLARS



UNLINED



LINED

UNLINED

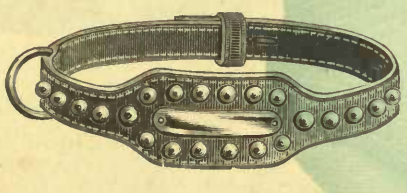
No. 260.	½	inch wide,	lengths assorted	9 to 13	inches,	Brass,	Nickel-plated	per dozen,	$2.00
" 261.	¾	"	"	13 to 17	"	"	"	"	2.55

WITH HARD LEATHER LININGS

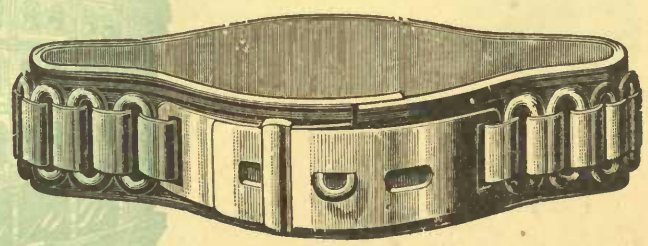
No. 250S.	½	inch wide,	lengths assorted	9 to 13	inches,	Brass,	Polished	per dozen,	$2.70
" 251S.	¾	"	"	13 to 17	"	"	"	"	3.55
" 260S.	½	"	"	9 to 13	"	"	Nickel-plated	"	3.05
" 261S.	¾	"	"	13 to 17	"	"	"	"	3.75
" 282S.	1	"	"	17 to 21	"	"	"	"	5.20

WITH CHAMOIS LINED LININGS

No. 250C.	½	inch wide,	lengths assorted	9 to 13	inches,	Brass,	Polished	per dozen,	$4.50
" 251C.	¾	"	"	13 to 17	"	"	"	"	5.15
" 260C.	½	"	"	9 to 13	"	"	Nickel-plated	"	4.65
" 261C.	¾	"	"	13 to 17	"	"	"	"	5.40

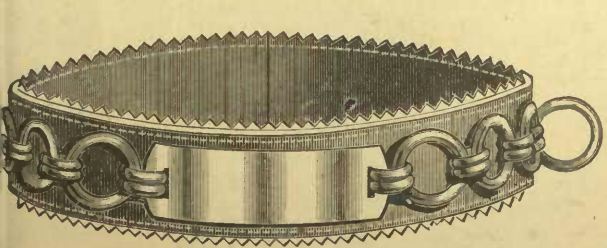


No. **427**

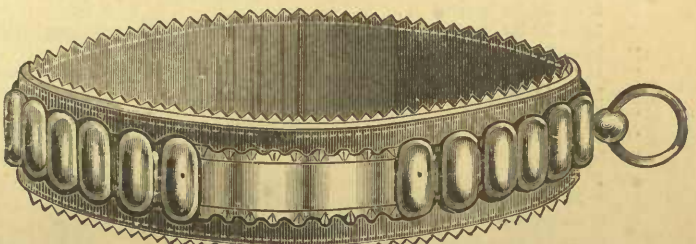


Nos. **915** and **925**

No. 427.	Lengths assorted	13 to 17	inches,	Black Leather,	Nickeled Trimmings and Studs			per doz.,	$18.00
" 406.	¾	inch wide,	lengths assorted	13 to 17	inches,	Russet Leather,	Nickeled Trimmings and Studs	"	8.65
" 407.	1	"	"	16 to 20	"	"	"	"	10.00
" 415.	1¼	"	"	18 to 22	"	Black	"	"	13.00
" 465.	2	"	"	25 to 29	"	Russet	"	"	16.60
" 605.	½	"	"	9 to 13	"	"	Chamois Lined, Nickeled Trimmings	"	5.75
" 915.	⅝	"	"	9 to 13	"	"	"	"	6.50
" 925.	¾	"	"	11 to 15	"	"	"	"	7.25
" 935.	1¼	"	"	14 to 20	"	"	"	"	10.00



No. **945**



No. **954**

No. 945.	⅞	inch wide,	lengths assorted	13 to 17	inches,	Russet Leather,	Chamois Lined,	Nickeled Trimmings,	per doz., $8.65
" 954.	⅞	"	"	15 to 19	"	"	"	"	13.00

RICE LEWIS & SON LIMITED TORONTO, ONT.

CARTRIDGES

RIM FIRE

Blank Cartridges same list as Ball Cartridges, except .22 and .32.

	Per 1000
B.B. Caps	$4.00
C.B. "	4.50
.22 Short, 50 in a box	5.00
.22 " 100 "	5.00
.22 " Mushroom, 50 in a box	5.50
.22 " " 100 "	5.50
.22 Long, 50 in a box	6.00
.22 " 100 "	6.00
.22 Colt's M.R. Short, 50 in a box	5.00
.22 " " " 100 "	5.00
.22 " " Long, 50 "	6.00
.22 " " " 100 "	6.00
.22 Long Rifle, 50 in a box	6.00
.22 " " 100 "	6.00
.22 Extra Long	9.00
.22 Winchester	9.00
.25 Short	8.50
.25 Stevens	14.00
.30 Short	9.00
.30 Long	10.50
.32 Extra Short	10.00
.32 Short	10.00
.32 Long	11.50
.32 Long Rifle	11.50
.32 Extra Long	16.50

	Per 1000
.38 Short	$16.00
.38 Long	18.00
.38 Extra Long	25.00
.41 Short	15.00
.41 Long	17.50
.42 Calibre, No. 64, Forehand & W	30.00
.44 Short	23.00
.44 Long	25.00
.44 Henry, Flat	24.00
.44 " Pointed	25.00
.44 C. & W.	25.00
.44 Howard Long	27.00
.44 Extra Long	36.00
.46 Short Pistol	25.00
.46 Long Rifle	33.00
.46 Extra Long	46.00
.56-46 Spencer Sporting	40.00
.56-50 " Carbine	40.00
.56-52 " Rifle	40.00
.56.56 " Carbine	40.00
SHOT CARTRIDGES, .22 Long	11.00
" " .32 "	22.00
BLANKS, .22 Short	5.00
" .32 "	10.00

CENTRAL FIRE PISTOL SIZES

Blank Cartridges same List as Ball Cartridges.

Primer	Per 1000
No. 1 —.22 Extra Long	$13.00
" 1 —.22 Winchester	15.00
" 1 —.25-20 Grs. Stevens' and Winchester Single Shot	18.00
" 1½—.25-20 Marlin and Winchester	16.00
" 1 —.300 Rook	15.00
" 1 —.32 Protector	9.00
" 1 —.32 Ideal	20.00
" 0 —.32 Short Colt's	11.00
" 0 —.32 Long	12.00
" 1 —.32 " Colt's Inside Lubricant	12.00
" 1 —.32 " Rifle	12.00
" 0 —.32 Smith & Wesson Gallery, Round Ball	10.00
" 0 —.32 " "	11.00
" 0 —.32 H. & R. or M. H. & Co.	14.00
" 1 —.32 Winchester	16.00
" 1 —.32 Colt's M.R. for Colt's Lightning Rifle	16.00
" 1 —.32-20 Marlin	16.00
" 1½—.32-30 Remington Grooved	25.00
" 1½—.32 Extra Long Ballard	18.00
" 1½—.32 " Smith & Wesson Rifle	20.00
" 1 —.32-44 S. & W. Gallery, Round Ball	18.00
" 1 —.32-44 " Target, Grooved	19.00
" 0 —.38 " Gallery, Round Ball	12.50
" 0 —.38 "	13.50
" 1 —.38-44 " Target, Grooved	23.00
" 1 —.38-44 " Gallery, Round Ball	19.00
" 0 —.38 Merwin, Hulbert & Co.	13.50
" 0 —.38 Short	13.50
" 1 —.38 Long, for Colt's D.A. Pistols, etc.	14.50
" 1 —.38 Winchester	19.00
" 1 —.38 Colt's M.R. for Colt's Lightning Rifle	19.00

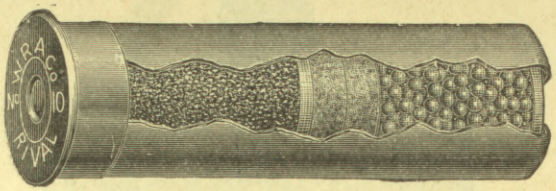
Primer.	Per 1000
No. 1 —.38-40 Marlin	$19.00
" 1 —.38 Extra Long	23.00
" 0 —.41 Short, Colt's Single Action	15.00
" 0 —.41 " " Double "	15.00
" 1 —.41 Long " " "	17.50
" 0 —.44 S. & W. No. 3 American	19.00
" 2 —.44 " " 3 Russian	20.00
" 2 —.44 " Russian Gallery, Round Ball	22.00
" 2 —.44 " " " Grooved	25.00
" 1 —.44 Merwin, Hulbert & Co.	20.00
" 2 —.44 Colt's	20.00
" 1 —.44 Long Ballard	22.00
" 1 —.44 Extra Long Wesson	30.00
" 1 —.44 " Ballard	30.00
" 1 —.44 Winchester	19.00
" 1 —.44 Colt's M. R. for Colt's Lightning Rifle	19.00
" 1 —.44-40 Marlin	19.00
" 2½—.44 Evans' New Model	26.00
" 1 —.44 " Old "	22.00
" 1 —.44 Webley	16.50
" 1 —.44 Bull Dog	14.50
" 1 —.45 Smith & Wesson	25.00
" 1 —.45 Webley	20.00
" 2 —.45 Colt's U.S.A.	22.00
" 2 —.45 " " 28 Grs.	22.00
" 2 —.45 " Round Ball	22.00
" 1 —.450 Revolver	15.00
" A —.50 Pistol	28.00
SHOT CARTRIDGES, .38 W.C.F and .44 W.C.F.	20.00
BLANKS, .32 Smith & Wesson	11.00
" .38 "	13.50

We Stock all sizes and sorts of Cartridges.

RICE LEWIS & SON TORONTO ONT.

LOADED SHOT SHELLS

AMERICAN



12 GAUGE

Load No.	Weight of Powder.	Weight of Shot.	Size of Shot.	Price per 1000.
100	3 Drs.	1 Oz.	10	$25.00
106	3 "	1 "	6	25.00
96	3 "	1⅛ "	6	26.00
98	3 "	1⅛ "	8	26.00
122	3¼ "	1⅛ "	2	26.50
123	3¼ "	1⅛ "	3	26.50
124	3¼ "	1⅛ "	4	26.50
125	3¼ "	1⅛ "	5	26.50
126	3¼ "	1⅛ "	6	26.50
127	3¼ "	1⅛ "	7	26.50
128	3¼ "	1⅛ "	8	26.50
134	3½ "	1⅛ "	4	27.00
135	3½ "	1⅛ "	5	27.00
136	3½ "	1⅛ "	6	27.00
191	3¾ "	1⅛ "	BB	29.50

10 GAUGE

Load No.	Weight of Powder.	Weight of Shot.	Size of Shot.	Price per 1000.
240	4 Drs.	1⅛ Oz.	10	$29.00
244	4 "	1⅛ "	4	29.00
246	4 "	1⅛ "	6	29.00
247	4 "	1⅛ "	7	29.00
256	4 "	1¼ "	6	30.00
258	4 "	1¼ "	8	30.00
274	4¼ "	1¼ "	4	30.50
275	4¼ "	1¼ "	5	30.50
276	4¼ "	1¼ "	6	30.50
277	4¼ "	1¼ "	7	30.50
278	4¼ "	1¼ "	8	30.50
282	4½ "	1⅛ "	2	30.00
283	4½ "	1⅛ "	3	30.00
296	4½ "	1¼ "	6	31.00
298	4½ "	1¼ "	8	31.00

DOMINION TRAP, 12 GAUGE

Load No.	Weight of Powder.	Weight of Shot.	Size of Shot.	Price per 1000.
D	3 Drs.	1⅛Oz	4	$20.50
D	3 "	1⅛ "	5	20.50
D	3 "	1⅛ "	6	20.50
D	3 "	1⅛ "	7	20.50
D	3 "	1⅛ "	8	20.50
D	3 "	1⅛ "	10	20.50
G	3¼ "	1⅛ "	3	21.00
G	3¼ "	1⅛ "	4	21.00
G	3¼ "	1⅛ "	5	21.00
G	3¼ "	1⅛ "	6	21.00
G	3¼ "	1⅛ "	7	21.00
G	3¼ "	1⅛ "	8	21.00
G	3¼ "	1⅛ "	10	21.00
J	3½ "	1⅛ "	3	21.50
J	3½ "	1⅛ "	4	21.50
J	3½ "	1⅛ "	5	21.50
J	3½ "	1⅛ "	6	21.50
J	3½ "	1⅛ "	8	21.50
J	3½ "	1⅛ "	10	21.50

DOMINION TRAP, 10 GAUGE

Load No.	Weight of Powder.	Weight of Shot.	Size of Shot.	Price per 1000.
Q	4 Drs.	1¼ Oz.	3	$23.50
Q	4 "	1¼ "	4	23.50
Q	4 "	1¼ "	5	23.50
Q	4 "	1¼ "	6	23.50
Q	4 "	1¼ "	8	23.50
Q	4 "	1¼ "	10	23.50
U	4¼ "	1¼ "	3	24.00
U	4¼ "	1¼ "	4	24.00
U	4¼ "	1¼ "	5	24.00
U	4¼ "	1¼ "	6	24.00
U	4¼ "	1¼ "	8	24.00
U	4¼ "	1¼ "	10	24.00

HAND LOADED SMOKELESS SHOT SHELLS

Loaded with C. & H. Amberite Powder.

12 GAUGE

Weight of Powder.	Weight of Shot.	Size of Shot.	Price per 1000.
3 Drs.	1⅛ Oz.	Any number 1 to 10	$47.75

10 GAUGE

Weight of Powder.	Weight of Shot.	Size of Shot.	Price per 1000.
3½ Drs.	1¼ Oz.	Any number 1 to 10	$52.50

Price on application of any Special Loads.

RICE LEWIS & SON LIMITED TORONTO, ONT.

POWDER

SOLE AGENTS FOR CURTIS'S & HARVEY'S BLACK AND NITRO POWDERS

C. & H. Black Powder

	F	FF	FFF	TP
25 lb. Kegs.....per keg,	$5.30	5.65	5.95	9.40

C. & H. "Honker" Ducking Powder

Coarse or Medium Grain.

Pounds.....	25	12½	6¼	1
Per Tin	$12.50	6.50	3.30	0.55

C. & H. Celebrated "Diamond Grain"

Nos.....		4	6
25 lb. Kegs.....per keg,		$18.75	18.75
12½ " ..... "		...	10.15
1 lb. Tins.....per doz.,		....	11.25
½ " ..... "		6.25	....

Hamilton Blasting Powder

25 lb. Kegs .....per keg, $2.50

C. & H. Amberite Smokeless Powder

	½	1	5 lb.
Tins			
Per lb.....	$2.20	2.05	2.00

Amberite Smokeless Powder contains no Nitro-Glycerine, gives a high muzzle velocity with low pressure, and is quick in ignition. It is a hard, clean grain, and practically unaffected by cold, heat or moisture. It is a safe and pleasant powder to shoot with, and loads measure for measure with Black Powder.

Savage Smokeless Powder

No. 1.....For High Presssure Savage Cartridges
2 " .....For Miniature " "
In Tins (about 1 lb).....per tin, $1.85

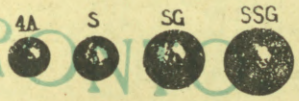
Dynamite

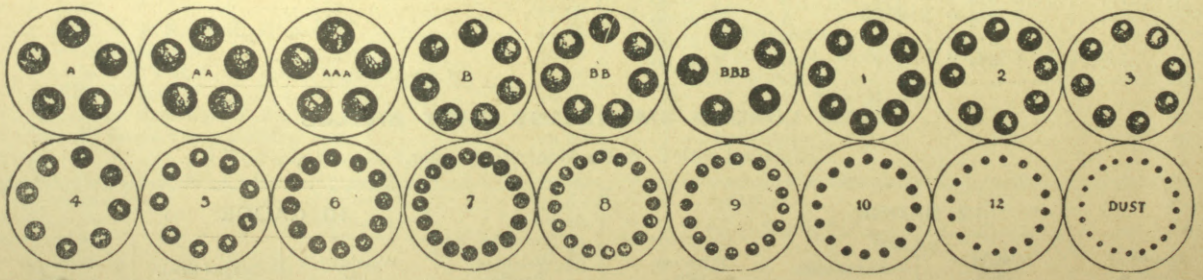
30% 40% 50% 60% 75%

Price on application.

Detonators.....per 1000, $11.25

SHOT





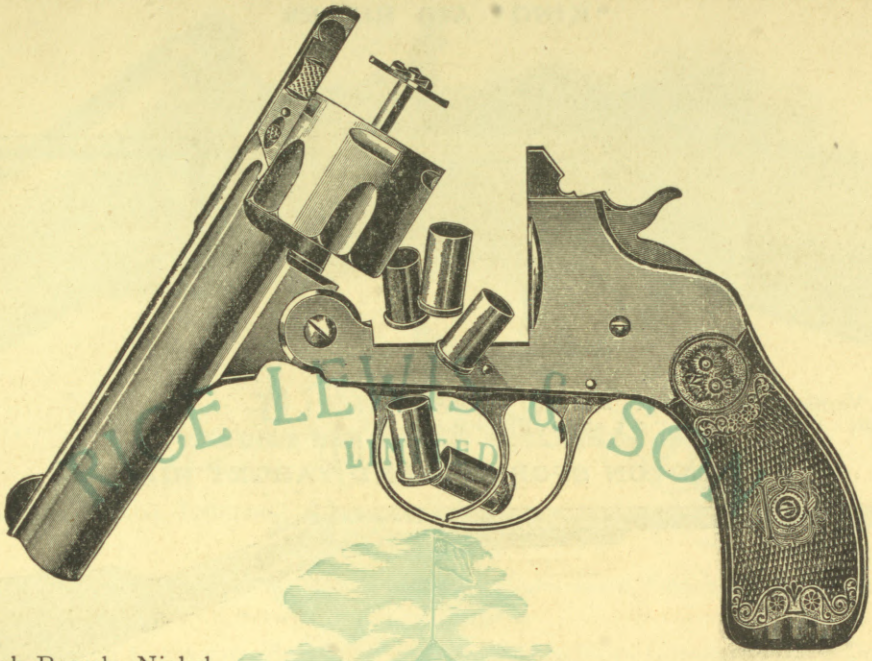
Soft Shot, Dust to No. 3A .....per lb., $0.06
" 4A, S, SG, and SSG (Buck Shot)..... " 0.07
Chilled Shot, Dust to No. 3A..... " 0.06½

Approximate Number of Pellets to the Ounce.

Dust,	12	10	9	8	7	6	5	4	3	2	1	B	BB	BBB	A	AA	AAA	AAAA	SS	SG	SSG
or No.	982	882	560	375	278	209	166	121	98	92	69	58	49	44	38	32	27	24	15	11	10

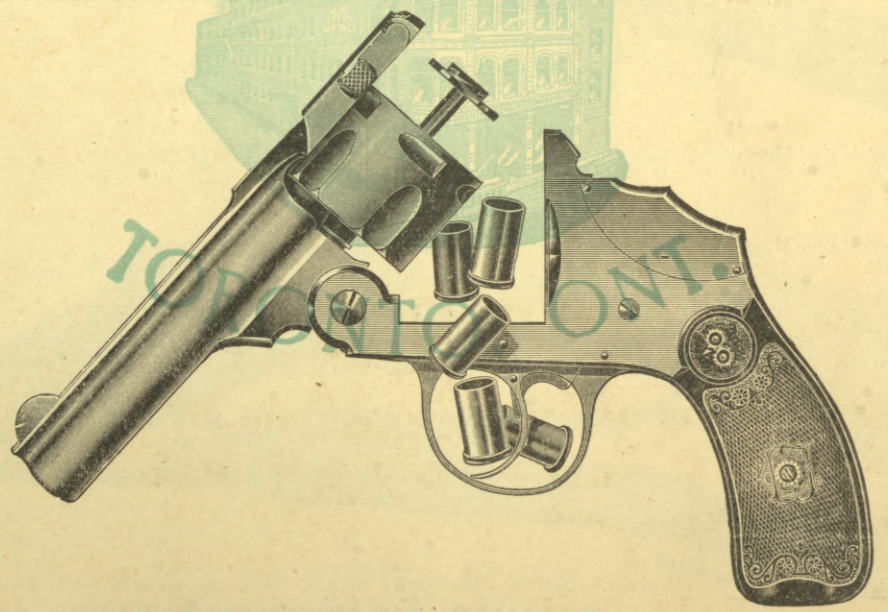
REVOLVERS

IVER JOHNSON SAFETY HAMMER AUTOMATIC REVOLVERS



.32	Calibre,	3-inch	Barrels,	Nickel	each,	$5.50
.32	"	3	"	Blued	"	6 15
.32	"	6	"	Nickel	"	7.35
.38	"	3¼	"	Nickel	"	5.50
.38	"	3¼	"	Blued	"	6.15
.38	"	6	"	Nickel	"	7.35

IVER JOHNSON SAFETY HAMMERLESS AUTOMATIC REVOLVERS

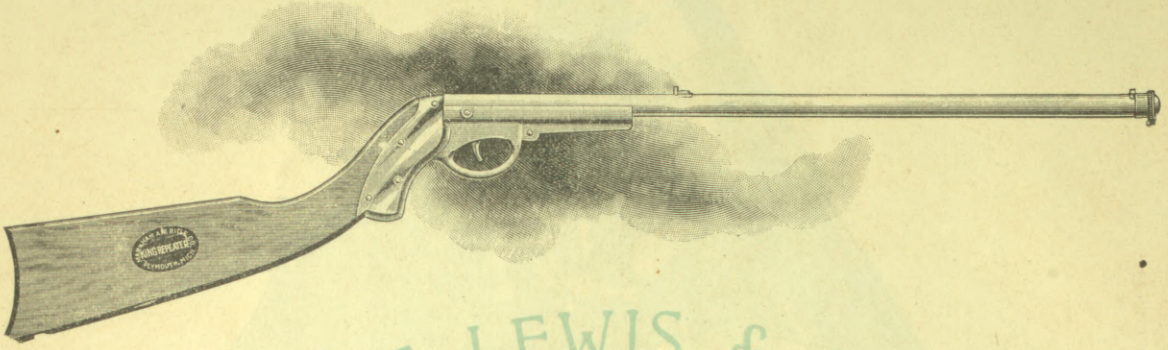


.32	Calibre,	3-inch	Barrels,	Nickel	each,	$6.75
.32	"	3	"	Blued	"	7.35
.32	"	6	"	Nickel	"	8.60
.38	"	3¼	"	Nickel	"	6.75
.38	"	3¼	"	Blued	"	7.35
.38	"	6	"	Nickel	"	8.60

We have a large assortment of Revolvers.

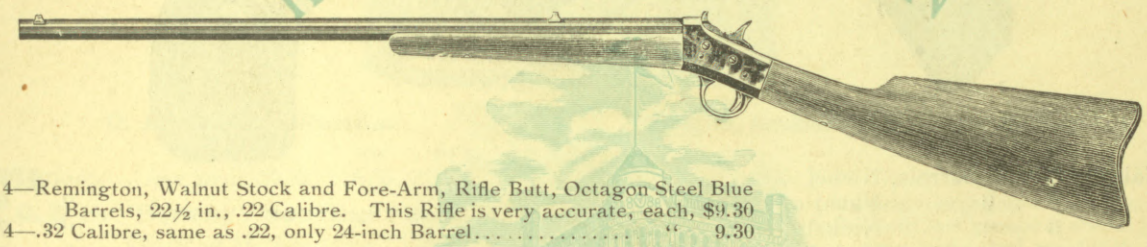
RIFLES

"KING" AIR RIFLES



"King" Repeater, Varnished Wood Stock; holds 150 BB Shot ..... per doz., $14.30
" Single Shot, " " " shoots BB Shot ..... " 12.00

REMINGTON SPORTING AND TARGET RIFLES



No. 4—Remington, Walnut Stock and Fore-Arm, Rifle Butt, Octagon Steel Blue Barrels, 22½ in., .22 Calibre. This Rifle is very accurate, each, $9.30
" 4—.32 Calibre, same as .22, only 24-inch Barrel ..... " 9.30

WINCHESTER REPEATING RIFLES

SPORTING RIFLE, MODEL 1892

.32, .38 and .44 Calibre.

24-inch Round Barrel, Full Magazine, Plain Trigger, Weight about 6¾ lbs., Number of Shots, 15 ..... each, $18.00
24 " Octagon " " " " " " 6¾ " " " 15 ..... " 19.50

SPORTING RIFLE, MODEL 1894

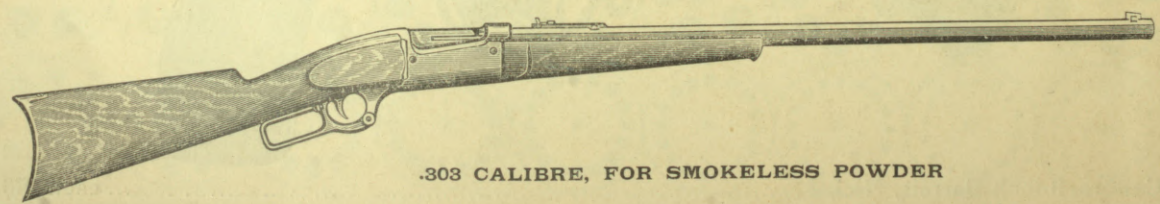
26-inch Round Barrel, Full Magazine, 10 Shots, Weight 7½ lbs., .32 - 40 and .38 - 55 Calibre ..... each, $18.00
26 " Octagon " " " 10 " " 7¼ " .32 - 40 " .38 - 55 " ..... " 19.50

SPORTING RIFLE, MODEL 1886

.45 - 70, .45 - 90, .40 - 70, .40 -82, .40 - 65, and .38 - 56 Calibre.

26-inch Round Barrel ..... each, $19.50 26-inch Octagon Barrel ..... each, $21.00

SAVAGE HAMMERLESS SPORTING RIFLES



.303 CALIBRE, FOR SMOKELESS POWDER

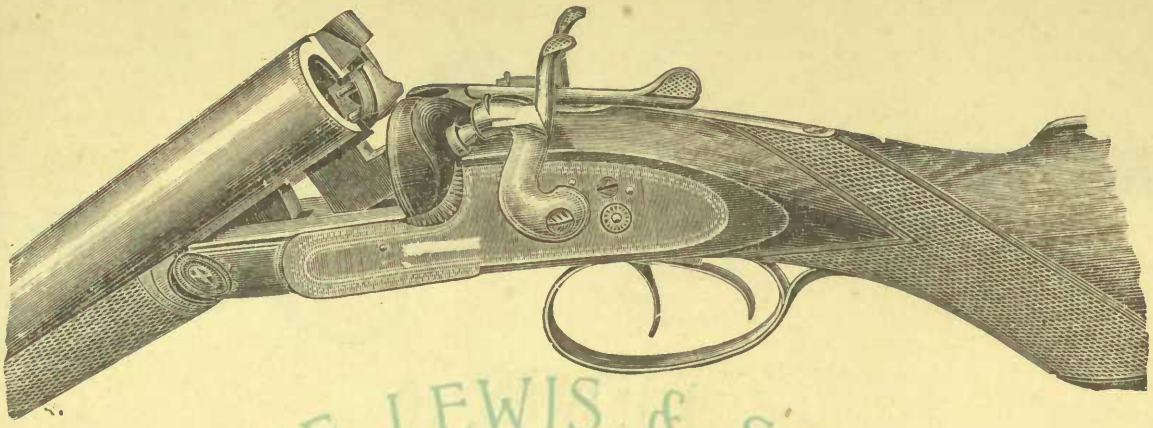
26-inch Round Barrel, holds 6 Cartridges, Weight 7½ lbs ..... each, $25.00
26 " Half Octagon Barrel, holds 6 Cartridges, Weight, 7⅝ lbs ..... " 26.50
26 " Full " " " 6 " " 7¾ " ..... " 26.50

Can also supply Carbine same make as this Rifle.

We can supply any Style or Make of Rifle

RICE LEWIS & SON LIMITED TORONTO ONT.

DOUBLE BARREL BREECH LOADING GUNS



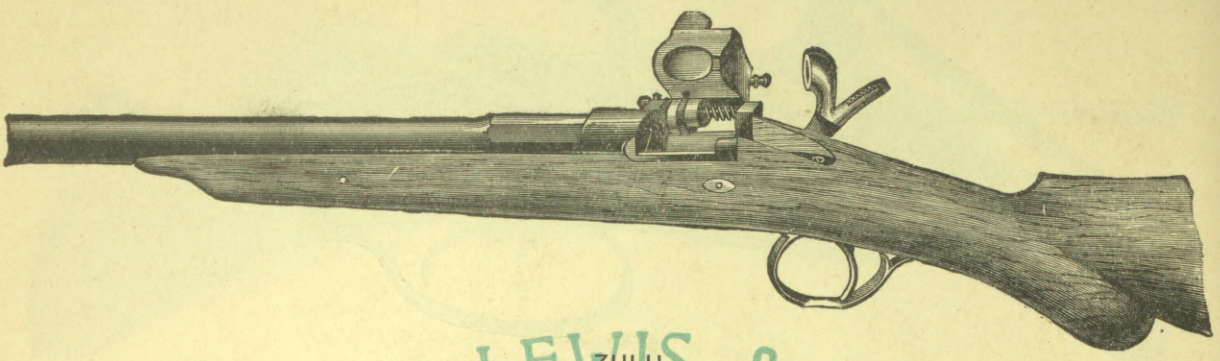
GENUINE BAR LOCKS, EXTENSION RIBS

No. C—Fine Imitation Twist, Rebounding Locks, Pistol Grip, Checkered Butt, 12 Bore..... each, $12.75
" C— " " " " " " " 10 " ..... " 13.25
" D—Imitation Boston Damascus, Rebounding Locks, Pistol Grip, Checkered Butt, Double Bolt, Matted Rib, 12 Bore ..... " 14.25
" D—Imitation Boston Damascus, Rebounding Locks, Pistol Grip, Checkered Butt, Double Bolt, Matted Rib, 10 Bore ..... " 15.00
" J—Genuine Twist, Rebounding Locks, Deeley & Edge Fore End, Matted Rib, Fine Engraving, Full Pistol Grip with Plate, Extra Fine Polished Barrels, Left Barrel Choked, 12 and 16 Bore..... " 17.25
" J—The same, 10 Bore ..... " 18.00

No. E—Imitation Fine Damascus, Full Pistol Grip with Shield, Greener Bolt, Deeley & Edge Fore End, Matted Rib, 12 Bore .....each, $17.75
" L—Boston Damascus Barrels, Best Quality Bar Lock, Rubber Butt, Rebounding Lock, Pistol Grip, Greener Bolt, 12 Bore ..... " 25.25
" L—The same, 10 Bore ..... " 26.00

We have in stock a number of high-grade Guns.

BREECH LOADING GUNS



ZULU

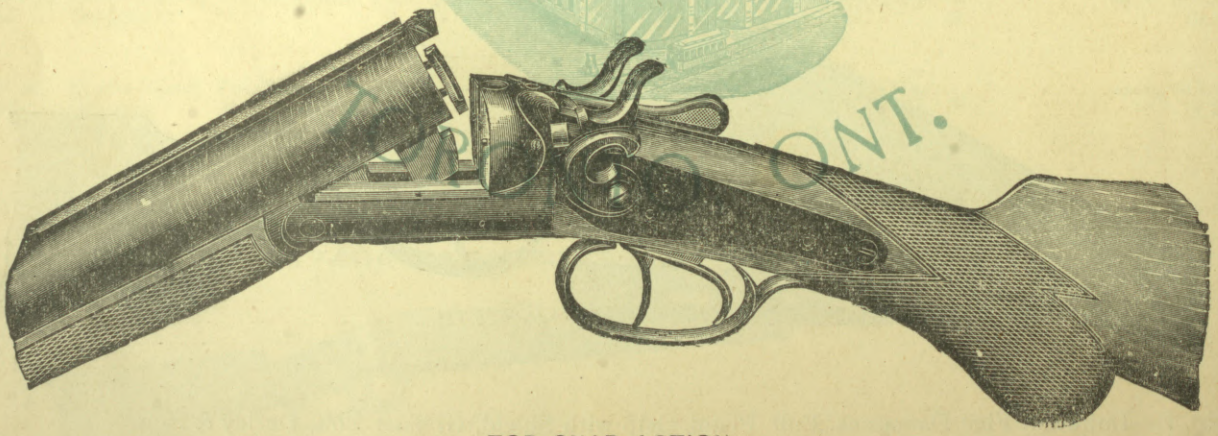
Zulu Single Breech Loading Guns, 12 Bore ..... each, **$6.00**

RICE LEWIS & SON LIMITED

REMINGTON SINGLE BREECH LOADING GUNS

No. 3—Top Lever, Blued Steel Barrel, Rebounding Lock, Side-Cocking Lever, Pistol Grip, Choke Bore, 12 or 16 Bore..... each, **$13.25**

BREECH LOADING DOUBLE BARREL GUNS



TOP SNAP ACTION

No. A—Fine Imitation Twist, Rebounding Locks, Pistol Grip, Checkered, 12 Bore..... each, **$11.00**
" B— " " " " " " Matted Rib, Engraved, 12 and 16 Bore, " **11.50**

We keep all kinds of Guns and Rifles

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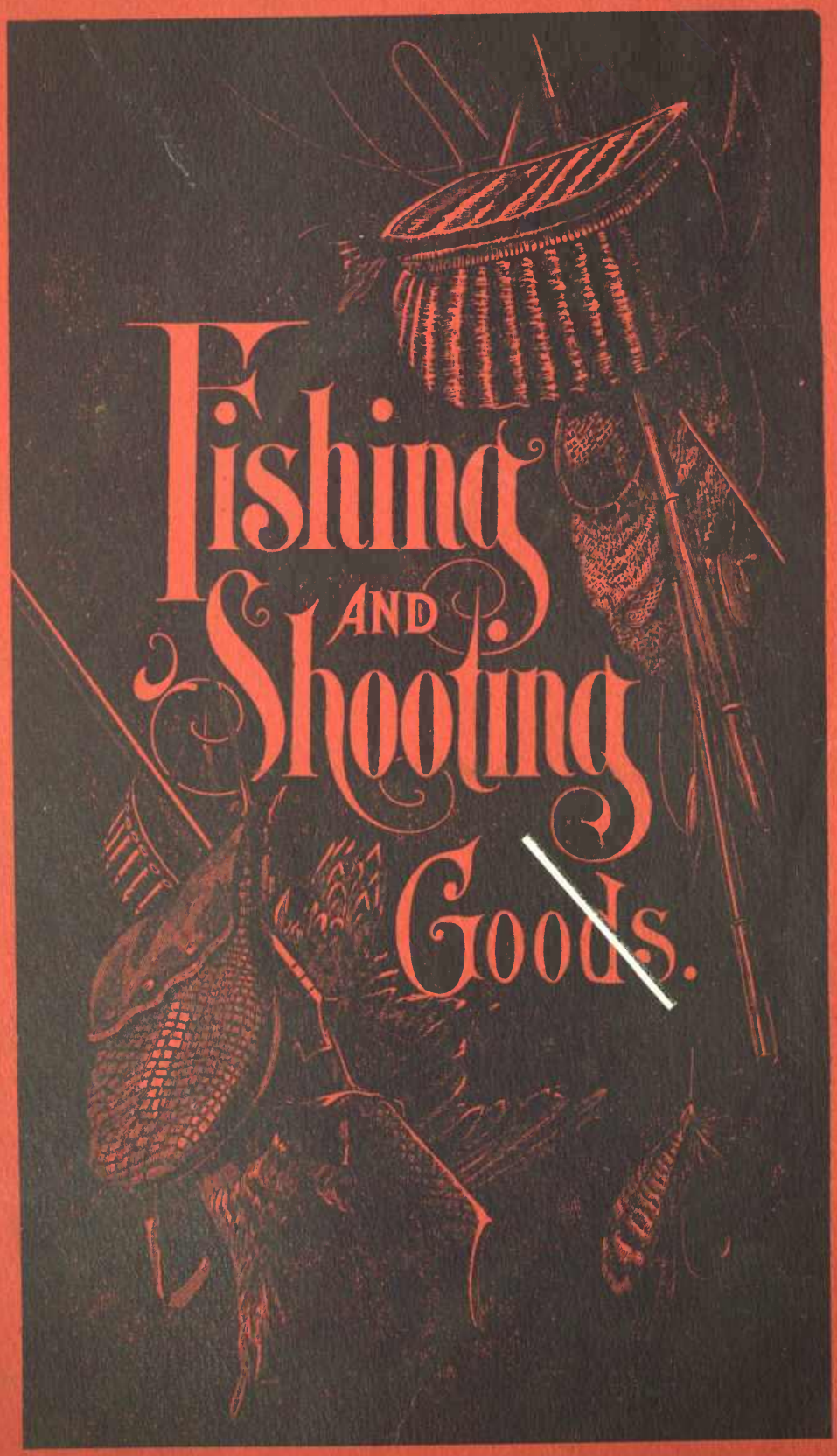

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